

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15584	45952	A	15674	1	1640	MSCDTNGEVEGGRVDSKTRGR QEVERTNTETHLGSGLNCDIPLIF LTYEWRGILEYKIFSVKTGEVL GKPGQLGHPTGQTTFETGTQV TSMQEMGSYSFGQHPVALQG TAPLPAAFTGWRLASVAFPGTQ CKLSVDLPWGLEDSGPLLTAP LGSAPVGPLCGGSDPTFPFCTA LTGPSAASLLEFARGPLQLFA WVSAEVSABEQGFVNHECCCLI VPLEVLSQLRSTRPCEVSVCPYW GVPPRDRSNQCPSGFTLDSVGP FCADEDECAAGNPCSHSCHNA MGTYCYCPCKGLTIAADGRTC QDIDECALGRHTCHAGQDCDN TIGSYRCVVRGSGFRRTSDGL SCQDINECQESSPCHQRCFNAIG SFHCGCEPGYQLKGRKCMDVN ECRQNVCRPDQHCNTRGGYK CIDLCPNGMTKAENGTCIGECL AVSVTEIS/CAVNKSNIDECKDG THQCRYNQICENTRGSYRCVCP RGYRSQGVGRPCMDIDECENT DACQHECKNFTGSYQCICPPGY QLTHNGKTCQKGLPFKQIESGG
15585	45953	A	15675	1	669	MGFCHDGRSIAFRGERGNDESA IEMIKVSHLKQYLA VVFRDKPL ELWDVRTCTLLREMSKNFPITIT ALILTGRCASLKWRSKPKKEEF MGYRQWNPTQESSKGDFEIQ EGGPSMATVYRTEMQPVQIGIE LLPSPLSFHSPNSGIPNDPSWL LSTATLHPPTGVERSSSPATEQR WTENDFDELREEGFRRSNYSEL REDTQTQKGEVENFEK/NLEECI
15586	45954	A	15676	1	323	MAHESAEDLFHFNVGWWHFSV PRSKLSQFPDSSLWKEASALTS SESQRLFIDRDGSTFRHHVHYL YTSKLSFSSCAELNLLYEALG LQLMPLLQVRCSCFLGVVDQ
15587	45955	B	15677	1	1443	

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15588	45956	A	15678	1	708	* EVTASPPQGVSAVSKGDKQKWT ALGKGLTFIKAVGSIQRNRWRG WQLKALYQCTTIAGATGVFLR VYRALDVLQMEEDVLKFLAA GIHLGGTNLDFQMKQYIYKKK CDGVYIHLKRTWEKLLLAACA IVAIENPADVRVVISSRNTGQRAI LKFAAATGATPIAGRFTPGIFTN QIQATFQEPQHLFFTDSDRH/S PLTEASYVNLHTIAPRNTDPLC YVDIAIPCKKGAHSVGL
15589	45957	A	15679	78	757	REIFINVRSLLMACFVKEEDVL KFLAAGTHLGGTNLDFQMEQY IYKRKSDGIYIHLKRTWEKLLL AARAIVAIENPADVSIVSSRNTG QRAVLKFAAATGATPIAGRFT GTFTNQIAAFAFREPRLLVVTDP RADHQPLTEASYVNLPTIALCN TDSPLRYVDIAIPCNKGAHSV GLMWWMLAREVLRMRGTISR EHPWEVMPDLYFYRDPPEIEKE EQAAAE
15590	45958	B	15680	1	1767	
15591	45959	A	15681	98	412	
15592	45960	A	15682	521	600	PSPGES/PPLQDPDPVPWPWPPEE EPRA
15593	45961	A	15683	117	285	
15594	45962	C	15684	12	468	
15595	45963	B	15685	1	840	
15596	45964	A	15686	1	1173	
15597	45965	A	15687	1	2931	MDLFMNVAMLRARYLWSEA VSOFGAQDPKSLALRTHCQTSG WSLTEQDPYNNVIRTIEALAA TLGGTQSLHTNVFDEALGLPTD FSARIARNTQIIQEESEL CRTVD PLAGSYIYIESLTDQIVKQARAI QQIDEAGGMAKAIAGLPKRMI EEASAREQSLIDQGKRVIIVGVN KYKLDHEDETVDLEIDNVMMVR NEQIASLERIRATRDDAASDTR EIVDLTNGNIKTFGNSIIHARFD TGRHLFSGGNT
15598	45966	C	15688	1	1779	
15599	45967	B	15689	22	1531	
15600	45968	A	15690	98	412	
15601	45969	A	15691	521	600	PSPGES/PPLQDPDPVPWPWPPEE EPRA
15602	45970	C	15692	175	454	
15603	45971	A	15693	332	494	RKEMASGFSKGPFTLGCCRRAL PDGDTQLQLLRGNHDSVLGA KRRDKGEAGPD

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15604	45972	A	15694	2	1276	HTLHSLVTILGTWALHSGPALL LPRPGSGLDFFLLSPVLPSPPQPG LPTPTFTNAVQLLLTLKLVSLA SEVQDLHLAQRKEMASGFSKG PTLGLL/RRRALPDGDTQLQLLL RGNHDPVLPPLPHLPGLAGAAL PRGSA\SLRPLRRAWPAPLFG LFLSSHLFPLEAVREDAFYARP LPARLFYMPVFFAFRMRFYVA WIAAECGCI AAGFGAYPVA ARA\GGGPTLQCPPSSPEKAAS LEYDYEYETIRNIDCYSTD RDGMRYWNMTVQWLAQYI YKSAPARSYVLRATWMLLSA YWHGLHPGYLSFLTIPCLAA EGRLESALRGRLSPGGQKAWD VWHWFLKMAYDYMCMGFV LLSLADTLRYWASIFYCIHFLA AALGLGLALGGGSPSRRAAS QPTSLAPEKLREE
15605	45973	A	15695	134	601	RDGEQPLWAWGSPCPVAPT CILWAPSSGPGPSFRPSAPATP WLWPGLSPISCDSEPSASWACP LPCPSPKPDRWLLTLKLVSLA EVQDLHLAQRKEMASGFSKGP TLGLL/RRRALPDGDTQLQLLL RGNHDSVLGAKRRDKGGQTTII FVQV
15606	45974	B	15696	76	504	
15607	45975	A	15697	11	706	HITRGRSCTRWISSAMAKGAPR VILLCLFGAALCLTGSRALQCY SFEHTYFGPFDLRAMKLPSISCP HERFEAILSLDTGYRAPVTLAR KGCWGTGPPAGQDAIEPGRAAA RLLGIVRGCTTDKCNHLMTH DALPNLSQAPDPPTLSGAECYA CIGVHQDDCAIGRSRRVQCHQD QTACFQGNGRMTVKGGLGEGW KGLGKGYGGRAAMRVVIPDRP NRETWPCSEVGGMTLV

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15608	45976	A	15698	2	1642	DEGRAKGHHTWQQTRENSQA KGETPYKTIRFRETYHYHKNMVG ETTPMIQLSPTGSLPQHVGMG ATIQDKIWVRTGLPGFPGTGL PVSSGFPSPGPFGLQGPPVSYG PTGIPGPIGPPGPGMLMVSSGPP GLPGPKVILGLNFQGPKEKVS KGLQGPPGPPGQISEQKRPIDVE FQKGDQVSNQDRGPPGPPGIRG PPVSTGGEKGEKGEQGEPPGKR VSEKDGENGQPGIPVSSGDGP YPGEPGRDG/EKGKNVMGPPGP PGFPGERGQKGDGPPGISIPGP PGLDQPGAPGLPGPPGAPGH IPPSKLGDTFCNIGTGISGPPGQ PGLPGLPGPPKLA/GAPGAPGFP GSKGEPGDILTFPGMKGDKGEL GSPGAPGLPGLPGTPGDGLPG LPGPKGEPVCTFKGERGPPGN PGLPGLPGNIGPMGPPGFGPPGP VGEKGIQGVAGNPPGQPGIPGKF GDPGQTITPGPKPLPGNPGRD GDVGLPGM*GLPGQPLGPIGP SKGEGPIPGIPLGPPGPKGMLL
15609	45977	A	15699	246	433	GLFPLEPGANGI*GC/SGIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS
15610	45978	A	15700	179	5262	RSCGSRMRMLKRGVSLAAGLFL LALSLWGQPAEAAACYGCSPG SKCDCSGIKGEKGERGFPGLEG HPGLPGFPGPEGPPGPRGQKGD DGIPGPPGPKGIRGPPGLPGFPG TPGLPGMPGHGAPGPQGPIC NGTKGERGFPGSPGFPGLQGGP GPPGIPGMKGEPPGSIIMSSLPGP KGNPYPGPPGIGQLPGPTGIPG PIGPPGPPGLMGPPGPPGLPGPK GNMGLNFQGPKEKGEQGLQG PPGPPGQISEQ
15611	45979	A	15701	155	623	FNLYPPGPSHN/DVGMGATIQD KIWGPPLPGFPGTGLPGERG FPGSPGFPGLQGPPGLPGTGP GPIGPPGPPGLMGPPGPPGLPGP KGNMGLNFQGPKEKGEQGLQ GPPGPPGQISEQKRPIDVEFQKG DQVSNQDRGPPGPPGIRGPPVS
15612	45980	A	15702	581	687	KKGAGQVV/DDVQLAQLRAQA NEIVLSWNCWMLCKQY
15613	45981	A	15703	7	123	

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15614	45982	A	15704	1	374	RFRKAQCTIVERLTNSMMMHG RNNGKKLMTVRIVKHA FEIHL LTGENPLQVLVNAIIN/DVSPLR RVNHAIWLLCTGAREAAFRNIK TIAECLADELINAAKGSSNSYAI KNKDELERVAKSNR
15615	45983	A	15705	2	892	QAFLPITPDQLSNYKVF AKKTA LWQNDDVHSQHKG EYRNAAG EPKYRNSVTTHSEGGK WQSEK KDLGVGYWSMACYKLGHIAG NEQQKHICGGIAKKWKQPKCP PTGKWPAVVVKPATESEGGGAK KEEKAHLPRVVEKELHESSRHI RHSIESVLLQAFQKDYTA VKE KYAKYLPISAERYAAKRFRKA QCPIVECLTYSMMTHGRNNRK KLMIMRIVKHA FEIQLLTGDNP LQVLVNAIINSGPREDSTLTGRA RIVRRQAVAVSPLSRVNQAIWP QCTGALEVA AFRNIKTIA
15616	45984	A	15706	1	536	
15617	45985	A	15707	8	437	
15618	45986	B	15708	255	1058	
15619	45987	A	15709	609	1489	LPLSLPRAARPAVAPHLPPREP PALPLPPPQPPRPSLPGSAQGC NS*RTGTAAAGAGPFAPASMSL RVQTPCWPGRGAREPPGSCAS WLFCAVWQMVRAHSGCLAPP PAAAAWVAAQLQP*DGHEGPG G*ET/S*VLRRLPTPTPLPTWCC TVRPRRPVLPFLIMRRRTAGPP CAPIAAAPTTPSSLRRGKVPTGR PPVL*G*AAVMLTMAVITITRTV TTSNAAAVMPKGTGAHRA LTPGTV*RDCLVKPTAQMPPS APPWTAPPRVAVAPVIVLPAIS NLGAFA
15620	45988	A	15710	173	530	GRERGDKGGAVQTLQDLVNV HLGLTYPPRPGHSGSPSWAS PQ APLQPPLRGEPGHGWGS/PSGL GQKSEGLGPAHL PRAARPAV APHLPPREP G PALPLPPPQPPRPP SLPGSAQGCNS
15621	45989	A	15711	1	227	
15622	45990	A	15712	238	498	
15623	45991	B	15713	1	1017	
15624	45992	B	15714	590	649	

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15625	45993	A	15715	3	843	AVFLSTSNEAVYKIFDDSCPPT AKTCNPETFPSSNESRQCPNAR CQFAYFGGESGYHRALLGLQIF NAFMFFWLANFVLALGQVTLA GAFASYWALRKPDDLPAFFLF SAFGRALRYHTGSLAFGALILAI VQIIRVILEYLDQRLKAAENKFS YVCLMTCLKCCFCWLEKFIKFL NRNAYIMIAIYGTNFTCSAR/NA CFLLMRNRIIRDVLDKITDFLFL *GKLLIVGIVGILAFFFFTHIRIR VQDTSPLNYYWVPILTIVIGS YLIAHGFFQRY
15626	45994	A	15716	1	449	FRGMGDERPHYYGKHGTPQKY DPTFKGPIYNRGCTDIICCVFL LAIVGYVAVGIIAWTHGDPRKV IYPTDSRGFECCGKGTKNENKP YLFYFNIVKASPLVLAGI/QCP TPQICVEKCPDRYLYLNRSS RDFEYKQFCVPGV/PRTIKKA NGVLEAGNSPCAYLK/ITPSLGT DY/PWFLLEFQCP/TPQICVEKCP DRYLYLNRSSRDFFEYKQFC VPGVQEQ
15627	45995	A	15717	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMLCGGY/G GAS/GMGGITAVTVNQVLSPL NLEVDPMQGMHTQEKEQVK TLNKSASFVDKVLFLQEQNM LETNWSLLQQQKPAQSNMDN MFESYINLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLICK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEIEPQLSQILDTS VVLSDMNSRSLDMSIIAIEKY EELQTLAGKHWDRLRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQRAQDMAHG

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15628	45996	A	15718	3	3908	STQOKTARSNMDNMFESYINN LRRHVETLGQEKLLAEELGN MQGLVEDFKNKYEDEINKRTE MENEFVLKKDVDEAYINKVE LESRLLEGLTDEINFLRQLYEEI RELQSWISDTSVLSMDNSRSL DMNSVIAEVKAQYEEIANRSQA EASMYQIKDEELQSLAGKHG DNLRCTKT*DLLR*TRNISRLQA EIEGLKGQRAFLEAAIADAEQC GELAIKDANAKL/SELEAALQR AKQDMAWQLRLMN
15629	45997	A	15719	1	804	MKPRTLVVSVTVLKDGVSRCV SFRCSDVSRISFQWVRLADF RNEATDPHGLDDILTLRQDKG SFMICWLKKGAPPGDPAPPRITP TVRFSTMDLSAASHIRIPLSDGN SIPILGLGTYSPEKSLWATNHVP FMVRPTLERTLRVLQLDYVDL YIIIEVPMFAFKPGDEIYPRDENGK WLYHKSNLCAWAEAMEACK\ DAGLVKSLGVSNNRQRLLELIL NKPGLKHKPVSNQVECHPYFT QPKLLKFCQQHDIVITAYSPLW TSTNP
15630	45998	A	15720	476	906	WKQSHSHQTWYLLTSEACKD AGLVKSLGVSSFNRSR/QLELIQN NPKLKPVPVSNEVECHPYTQTP KLLKFRQQHDIVMIAYSPLGTT RNPTWTNMSSLPSLKDALLKR CNKITAQVILRFNIQQGVVPIPK SFNPEKIKENLQA
15631	45999	A	15721	138	217	RHAPQVLGGLSEGT*GGHRCPA RGHW
15632	46000	B	15722	8	578	
15633	46001	A	15723	1	3087	
15634	46002	A	15724	1	2232	
15635	46003	A	15725	1	2085	
15636	46004	A	15726	1	1512	
15637	46005	A	15727	1	1260	
15638	46006	B	15728	1	2145	
15639	46007	A	15729	1	1353	
15640	46008	A	15730	1	1741	
15641	46009	A	15731	1	1995	
15642	46010	B	15732	1	3464	
15643	46011	A	15733	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAFACL
15644	46012	B	15734	90	1247	

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15645	46013	A	15735	1	1698	MELKAKAQELREECRLSRRC NQLEESVSVMEDMNMKREG KFREKRIRNQEQLQEIWDYVK RPNRLRTGVHESDGENGTKLEN TLQDIIQENFPNLRQANIQIEI QRTPPQYSSRRATPRHIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKAGV AILVSDKTDKFKTKILDKKEGH YHIVGLIQEELTILNTYAPSTG APRFIKQVRSDDLQRLDLSHTLI GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFPSAPHHTYSKIDHIVGS KALLSKCKRTEIITNYLSDHSAI KLELRICKLTQNHSTTWKLNLL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVCVTG KFIALNAHKRQERSKIDTLTS QLKELEKQEQTSHKASRRQEIT KIRAELEIETQKTL/QKINESRS WFFERINKIDRPL
15646	46014	A	15736	1043	1536	TSTELSTPNQONIHFFQHHHTSI PKLTTYLEVKLSS*KKH*TWKG TTGTSCC/INHAKIVTHRLKIKG WRKIYQANGKQKAGVANLV SDKTDKFKPTKIKRDKEGHYIMV KGSIQEELTTLNIAYPNTGAPR FIKQVLSDLQRLDLSHTLIMGD FNTPLLTLDSTRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTKNRSTTWKLNLLLN DYWVHNEMKAEIKMFFETNE NKDDTTYQNLWDTFKAMCRGK FIAVNAHKRQERSKIDTLTSQ LKELEKQEQTSHKASRRQEITKI
15647	46015	A	15737	1208	1387	KPWQKNYVTHAQASVADLIK WKKGYQ*LKIK*MK*SKRSLE KKE*KETNKASKKYGTI
15648	46016	A	15738	308	487	KPWHKNYIMHAQASVANLINW KKGYQ*LKIK*VK*SEKRSLEK KE*KEMNKASKKYGTM
15649	46017	A	15739	220	1101	
15650	46018	A	15740	1	1534	
15651	46019	B	15741	365	3904	

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15652	46020	A	15742	79	506	EPSQRHSQDLQGWSEHQVCL HRVGVGHGHCATCILPAATASHE GPEAW/TARLLVPQTAVGICSA FSGLPSTSTHEPTGMHFLPSEAHE KPRTPQPDQKGRDDLPCTPSTC LHTSLFLDTGQEFGTCTCRMAGLK EHVAGDNRERRQ
15653	46021	A	15743	2	71	ELKF**FPIPSRKTSPLRQGS
15654	46022	A	15744	1	627	MKAIEIKMFFETNENKDTTYQN LWNTFKAVRRGKFIALNAHKR KQERSKIDTLTSQLEKEKQEQ THSQASRRLNQEEVESLNRPI GSEIEAIINSPLTKRPGPDGFTA EFYQRYKEELPK/YLLKQLQQS LRIPNQCAKITSIPKHQ*QTNRE PNHE*TPHNCFKDNKIPRNPTY KGREGPLQGLRTIAQRNKRGH KQMEEHSMML
15655	46023	A	15746	1	3828	MQLPVQTTIAADGYVIKQKRRT EDGHQSPERHQFPHLSSYSEQE TTRVPFAKAVASGFPDGTTLVF CASPPSPQVHLPTQAVADIFSE FHEHYARJSTAPSVTLKANMM GSEFPTARLSNSKYPETLEVGES AQPVPMYTWKTVAQDRKDGVS SPPLLEKQSITKSISNKPVELSSK VVEVDASKADHMKKMASMGL VHSMAGSGLVLSRSEILKEISSL RNGCAIYRSEFISTDPSSWVVP PRTNEENNGES

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15656	46024	A	15747	1	1639	NCLSDHSAIKLELRJIKLTQNCSTTWWKLNLLNDYWVHNEMKAEIKIFFETNENKDTTYQNLWDTFKAVCRGKFTALNAHKRKQERSKIDTLTSQLKELEKQEQTTHSKASRRQEITKIRAEKKEITQKTLQNINESRSLFFEKINKIDRPLARLIKKKREKDQIEAIKNDKGDITDTPTEIQTITREYVYKHLANKLEYLEEMMDKFLDITYTLPRLTQEEVESLNRPTTGSEIEAIINSLPTKKSPGPDGFTAIFYQRYKEELVPFLKLKLFQSIEKEGILPNSFYEASIIIPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHIIDQVGFIPGMQGWFNIRKSNVIQHINRAKDKNHMIIISIDAGKAFDKIQQSFMLKALNKLDIDGTAIRQKEIKIGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLKLSNFASKVSGYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDINKWKNIPCS WVGRJNI
15657	46025	B	15748	1	1563	
15658	46026	A	15749	1	4332	

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15659	46027	A	15750	1	2319	MRIDGAQELTLALPFASGVACR DVKPGPRRRPLRYRCFQKPSNR LGSASLGAGFWAGRRDAKSGH DDDPGALFSVTMDRDLEQAL DRAENIIIEIAQQRPPIRRYSPRA GKTLQEKLYDIYVEECGKEPED PQELRSNVNLEKLVRRESLPC LLVNLYPGNQGYSVMLQREDG SFAETIRLPYEERALLDYLDAEE LPPALGDVLDKASVNIHFSGCV IVEVRDYGQSSNMQPPGYQSRH ILLRPTMTQLAPEVKTMTDRDGE KWSQEDKFPLESQILATAEPL CLDPSVAVACTANRLLYNKQK MNTDPMEOCLQRYSWPSVKPQ QEQSDCPPPPELRVSTSGQKEE RKVGQPCELNITKAGSCVDTW KGRPCDLAVPSEVDVEKLAKG YQSVTAADPQLPVWPAQEVED PFRHAWAEGCQAWDTKPNIMQ SFNDPLLCKIRPRKKARQKSQ KSPWQPPDDHSAWLRPGSETD AGRAVSQAQESVQSKVKGPGK MSHSSSGPASVSQSSWKTPFEQ PDPVWVQSSVSGKEKHPPT QLPSSSGKISSGNSFPQQAQSP LKRPFPAAPAAAAAPAPAPA PAAAPALAAAAAAGGAAP SHSQKPSVPLIKASRRRPAAGRP TRFVKIAPAIQVRTGSTGLIGH QRGGPSPGSPGISGSLQSSGGP LPDARFGSSAGCAPLCLGQQP

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15660	46028	A	15751	409	1874	YDSYIVVIDDADITRGDDAVPR DHHSSSTSMVVFRRHRLDVIVVD GDDQHRRMVGRRCRSWFRFR GSLDVDQVIGDTAAGRLNVMG DITRDARRDKVKNERYGVA PSVAFGLGTANRLYLYLHVTQH NTPDGGIPTIGLPGYSAPSAGTA ALNHSGKVDTHNFYGTSDSDYD DSTTDATMRFEHDINDNTTIR NTTRWSR/S/WTWSRTANTKDV SNKILTNQTNLTSTFYTGSGHGD VSTGVEFTRETQNTNYGVNPVTL PAVNIYHPDSSIHPPGLTRNGA NANGQTDTFIYAFTLQITRD FELNGGIRLDNYHTEYDSATAC GGSGRGAITCPTGVAKGSPVTT VDTAKSGNLMNWKAGALYHL TENGNVYINYAVSQPPGGNN FALAQSGSGNSANRTDFNPQK ANTSEIGTKWQVRGSSRVNVM HEVNTPHQCVRFRPARSAPGCC QSPCHRSKGKHMQYGLSKCQPG QYNSVKSGERVNGVTFQ
15661	46029	A	15752	421	441	P*ARMPSPLGPPCLPVMDPETT LEEPETARLRFRCYQEVAGP REALARLRELCCQWLQPEAHS KEQMLEMLVLEQFLGTLPTIEH AWVRGQRPGSPPEAAALIEGLQ HDPGQLLG
15662	46030	A	15753	1	346	PAFGGSAPSERLELHVDGPPPRP QAPGD/CGVGRSWRAEM/HR ALRGNTNPRHILRSCCARARRRP *RRSAPPGRAN:PS*SSWGPSTP GNYRCRYRSWVPHTFKSELND PVELLVA

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15663	46031	A	15754	1	2091	MKPGRLRRRRGRGLCGGLGPQL RATWSGAVLAGRDAVLRCGEP IPDVTFELLREGETKAVKTVRT PGAGAKLELIFVGPQHAGNYRC RYSRLVAHTFESELSDPVELLV ΛVAATLNHLRLVHMLHIPAAAG EGSFREGTHFLKSPVKMPLVF RVGRRRLVNLQGPQGVPIPIRSC EHLNWQKGLCGVTKCAAPLLR GPCCPAVLRKEIPFVSLKPLGMS SKASEAEPGLPRLGSHQSTAAA LGPRYNGSADAIRPHTAWAVIQ TTISRFTWSLTQVNVPSRTVSLA VRRDRYMTSRTTTNPEEGRG TFWARRNGCPSACAVAEAL EACLADVRYPPVALSCGRLQK RRDFRETNAAMSNEKSLASA RFFVEVQVTLGALCTVQATGQ SMLVFTTQMSSYSEKFLTSHK ASLSPLQLADRWRDQGMKW QSPQWGLRPAASHTAEQEPGL AASKAFRDLQNLNSAFLSLTS LSAGHQCSAIVVMMSKKEITP QGQLAAASFGELQPVALKCPW LKSHVYESWLIRPEAHSKEQML EMLVLEQFLGTLPEIQAWVRG QRPGPSPEEAALVEGLQHDGP QLLGWITAHVLKQEVLPAAQK TEEPLGSPHPSGTVESPGEGPD TRIEGSVQLSCSVKEPNVDGQ EVAPSSPLAAQSPEGNHGHE PASTSFHPPRIQVSSPKWEV
15664	46032	A	15755	1	208	EVAQMPRVSTPATLPSLPQPAL
15665	46033	A	15756	3	373	MAPWTPVPYDQLMEEKARAR YAGTIQKWTAAALQLSRTSLK DSGEGTSKWGRSVDTTQPLSPA IPVIFQ*AHEQSGHSGMDGGYA WALQHGLALNTDLA
15666	46034	A	15757	3	266	
15667	46035	A	15758	3	587	YPASAGLMLQNFVIGLRYHF AIHSPAAGGLDGLHAAVAIQG ITKIETTPNHQAPAHWTLLTQ QAHLQPSPLHFNPLTLCLMHC PTAIPHCADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAEQDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLIPGDP KHYYGPPVKVGAYGAQQL
15668	46036	A	15759	1	1566	

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15669	46037	A	15760	1	981	MVAIAKVLIAVKEDSDSHNQPN TRMTVSKGVPVSAVEGGRRGQD SDDCVEENDAVRTWPPSRILRT ESHSPHTCSWRRHLLSSCPYT GMSEFIPSSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGSWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTWLNCHNLWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTLDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHP KVDSCTTAPF*DIEGQQQL
15670	46038	A	15761	349	718	AGPEGTTTACPI/COQQRPILS LRYGTISWG/DQSATWQVVDY IRTLWSKWQSAKATTIHGLT KCLIHHDIPHSIAD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSFNP
15671	46039	A	15762	143	469	ARIQ/GSRNQGVVEVAPLTVT PSDPLANVLLPVPATLPSAGLEI LVPEEGRLLPGDITMMPLNWN LRLPHGHFGLLLPLNQAKKKG VAVLGGVIALDCQDEISLLLYK
15672	46040	A	15763	1	2712	
15673	46041	A	15764	3	578	LKSRQAPRCEVESVTHEEVY RKELFEFSNLYRKKSGEQIREWI LRKTDGSWRITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWLNCHNLWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLLPALMASW/ENSP*SIDRG RED*SLVHKWFCTICRHHPKVD SCSTTAPF*DIEGQQQL
15674	46042	A	15765	1	461	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFGTWYAAIDL ANAFSPVPVHEAHQKQFALPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAETHAASRIR VSCLPEQKSHEQTLPEWQVVP
15675	46043	A	15766	1	1371	
15676	46044	B	15767	54	864	

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15677	46045	A	15768	2	1148	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PIEFHCLSKLHLLIPGMQPLT WQ/HALFSIPVHKGYINSLALC/ Q*CYLERT*LLFTSTRYHTGPLH **HYADWJQCARSRKQTGLTG KGQRFLVTERDTYVGYFTYPAH NASAKTTIHGCTECLTHPHVIPH SIASEQDTHFTAKEVWQWAHG NGHHWSYHVPHPHPEIARLIEWW NGLLSQVQCHLGDNTLQGW GKVLQKAVYALNQYPIYGTVS PIARIHGSRNQGVVEVAPLTIT PSDPLAKCLFPVPKTLCAACLE VLLPGGGMPLPGDTTTTPLNRK LRFPLEHFGLL
15678	46046	A	15769	917	2352	DTISHQLEWRSLSKSETTGIAEI SATIKDLKGAGVVIPTTSLFNSS VWPVQKTDKSWRMVTDYCKL NQVLTPNAAAAPDVVPLLEQIN TSPGTWYAAIDLANAIFSPVHK AQKQKQAFSWQGGQYFTFTVLP QGYISSLALCHNLIRRDLDGFL LQNTITLVHYVDDIMLIGSSEQE VANALDLLVRHLICVRGWEISPT KIQGPSTLVKFLGVQWCGACR DILSKVKDKLLHLAPPTTKEA QRLVGLFGFWRQHIFHLGGLLQ PLYLVIOKAAIFEWNPEPEKVL QKVQAAVQAAALPLGPDPTDPI MLEVLVADRDAVWSLWQALI GESQQRPGFWSMALPSSADN YSPFERQLFACSWALVETECLT MGHQVTMQPELPIMNWMLSDP SSHKVVQAQQH/QEVAQMPRV STPATLPSLPQALMAPWTVPY DQLMEEKARARYAGTIQKWT AAALQPLSRSTLSKDSGEGTSKW
15679	46047	A	15770	1	861	
15680	46048	A	15771	5	90	
15681	46049	A	15772	1	324	MVQEASEVIGQLQSSAAK*AM HWAGFSYLTKKSLNAN
15682	46050	C	15773	1	726	
15683	46051	A	15774	364	543	ARGAARSMKHTSGDETQRQKL D*VRLTGIRASREEVTKAGPR KRIMCSGMDLNGGLQL
15684	46052	B	15775	1	1056	
15685	46053	A	15776	1	282	

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15686	46054	A	15777	167	954	KRVTSKLSKSPRRGSPHCSRNPV LLRGIGRYSRSAMYSRKAMYK\ RKYSAAKSKVEKKKKKVLAT VTKPVGGDKNGGTRVVKLRK MPRYYPTEDEVPRKLLSHGKK\p FSQHVRKLRASITPGTILILTGR HRGKR VVFLKQLASGLLVGTG PLVLNRVPLRRTHQKFVIAFTT KIDISNVKIPKHLTDAYFKKKK LRKPRHQEGEIFDTEKEKYEITE QRKIDQKAVDSQILPKIAIPQL QGYLRSVFALTNGIYPHKLVF
15687	46055	A	15778	1054	1403	MVEGGILRVNTSVECKTGPFF SPHILWREPFCSVQVGGKKKK VLATVTKPVGGDKNGGTRVVK LRKMPRYYPTEDEVPRKLLSHG KKPFSQHVRKLRPSITPGVTILIL TGRHRG
15688	46056	A	15779	1	388	
15689	46057	A	15780	1	456	MKLPEEGSLSDICCSAIFAVLQP LLVIPRETGSGVDLQQTPTDLQ LRQTESQIMSELPFTVASKRIKY LGIQLTKDVKDLFKEIYKPLLSE IKEDTNKWKSI PCSWLGRINIVK MAILPKVTYIFNAIHKLPMTEL EKT\FIWNRKRACI
15690	46058	A	15781	1	504	
15691	46059	A	15782	1	1836	

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15692	46060	A	15783	285	1949	RGEMNSRGRNLSIINKTDFPFI ALNAHKRKHRSKIDTLTSQK ELEKQEQTNSKASRSHEITKIRA ELKEIETHNKPFFKISESR/SWFF IFYF/ERJNKIDRPLARLIKKKRE KNQIDTIKNDKGDITDPTIEIQT TIREYYKHLAYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIEAIINSLPTKRSPGPDGFT AEFYQRI.KQCRKAHLDPVSLT HRSGPGAREDRLSDSGDASRGC WNLSQHAAVTSPSEERRIRTL SCRSVGVCCRSTPDPVCLGISSG GCRTVNIGEQQMLLPDRSSGSF VSEGYRCPCEVSAPTGGCPPVRC LMINTVSLIGVKFTEVFD SINISE HLELACLDHNSLLAREQNW EDEFDELTEVGFRRWVITNSSE LKEEVQTHCKEVKNLETRLDE WLTRITNAEKSLKDLMEKTM AGELRDACTRFSSRFNQLLEERV TEIEDQMNMEMKQEEKFREKRIK RNEQSLQEIWDYVKRPNLHWL GVPESDRENGTKLENTLQDIQE NFPNLARQTNIQEMQRMMP
15693	46061	B	15784	596	1414	

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15694	46062	A	15785	610	2986	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKDQRTSSPTKDCSSSPATE QRWMENDFDELTEV/VLQKPG RDTTKQKEKFRPISLMNIDVKI LNKILANRIQQHIKKLIHHDQV GFISGMQGWFNICKSINVIIHIN RTNDKNHMIISIDAEKAFDKIQ QPFMLKTLKKLGIDGTYLKIIIRA IYDKSTASIIILNGQKLEAFPLKD RTRQGCPSPPLFNIALEVLARA IRQEKDIKICQLGKEKVRSLFA EDMIVYLENPVSAFNLFKLISN FSKVSGYKINVQKQVFLYINN RQRESQIMNEFPPTIARRRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNNMPCSWIGRINIM KMAILAKVIYRFNAIPIKLPMTF FTELEKVTTLKCI*NQKRAHIAK PILSQKNKAGGITLPDFKLHYK AAVTKTAWYWYQNRDIDQRN RTEPTEIMLIHYNHLIFDKPDKN KKWGNDSLNFNKCWENWLAI CRKLKRDPLTPYTKINSRWIE DLNIRPETIKTEENLGNITQDIA MGKDFMSKTPKAMATKAKIDK WDLIKLKNFCTAKETTIRVNRQ PTEWEKIFAISYSSDKGIISRIYNE LKQIYKKKNPNPIKKWAKDINR HFSKEDIQAASKHYKKHSTSRI MQIKTTLGHYLTPVRMATIKKS KNNRCWCGCGEKGTLIHCW/M
15695	46063	A	15786	1	906	MVNNQRYHIPIGGTAEISGTIKK LKNAGVVIPTTSPNSPIWVPVQ KTDGSWRMTMDYHKLNQVVT PIAVAVPYVVALLEQINTFSCST WYAAIDLANTFFFSVHKA/HK K*FAPSROQQYTFTVHPAYDN YSPFERQLLACYWASVETEHLT MGYQVTIQLLEPIMNWLSDPS SHKLGHAQHSIIKKWKWYIRD RARAGPEGTARIHRSRNQGVVEV EVAPLTITPSDPLARFLLPVPTIL HSAGLEVLVPEGGLPLGDTT IPFNWKLRLPPGHFRLLLPLNQ QAKKGVTVFAGVIEAIKMK

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15696	46064	A	15787	1	909	MVLEVSVDSDRAVWRI.WRAPI GESQQRSLGFWSKVL.PYSADN YFPPERQLLACY.WALLETDRLT VGHQVTLQPELPIMNWLSDPS SHKVGHVHQHSIIKWKWYIRD QTRAGPEGTTTPVITQ.WDAHE QSGLSGRDG/KGQRFVLTGVDT YSGYWFAYPAHNASAKTSIY FTECLIHCHGIPHSIASDQGT.LFT AKEVWQWAHAHGIHWSYHIP HHPIAAGLIEWWNGLLKSQLQ CQLGDNTLQG.WGKDLQKAMY SLNQRLIYSTVSPISRIHGSRNQ RVEVEVAPLTITLSDPLAKFFFL
15697	46065	A	15788	1	754	MQNNVDSFQEPPTPLFSSRPIA RLKSKQAPRGEAESVTHEELES RLAKTSDKISSLTFRRGWGKV LQKAMYALNQHPYGTVPPIPR DGSRNQGVVEKVAPLTITLSDP LAKFLLPVLSALHSAGLEVLVP EGGILPPGAGDMRMIQLNWK SLPPGYFGLLLPSQTKKGV DLGGVIDLDYQDEISLLFH NGKLQQPNPDRTTSGPDPSGM KVWVTPPGK/EPQPAEGLAEGK GNTIEWVVEE
15698	46066	A	15789	686	1506	VETVHMLQIGEFKKTDSV/WK TVDYHKLNVVTPATAAVPDV VSLLEQINTYPGTWYAVIDLEN AFFSVPVHNAHQKGEAFWSQG QQYTFTVLPQGYINSPTLCHNLI RRDPGHFSYPQDITLVHYIDDI MLIGSSEKEVANTLDLLPIYQV TLKAANYEWGPQEKA QAAVQAALPLGQHNPA DPTVL EVSVAADRDAIWNWQAPIARIH GSRNQGVVEVAPLTITPSDPL AKFLPPVPATFCSAGLEVLVPE GGMLPPGEIETIPLK
15699	46067	A	15790	422	537	VNQFGVIFCAIIN*YECLKQSF KTQTDYFPSPLNTSQ
15700	46068	B	15791	1	519	

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15701	46069	A	15792	53	753	SLGTGTLRVLLGTAAEQMLQFS HLIYADYGGKPALEDINLTLESG ELLVVLG/PSGCGKTTLLNLIAG FVPPYQHGSIQLAGKRIEGPGA RGVVFQNEGLLPWRNVQDITVA FGLQLAGIKKMQRKFAHQML KKVGLEGADKRYIWQLSGGQR QRVGIARALANPQLLLDDEPF GALDAFTRDQMOTLLNLWQE TGKQVLLITHDIEEAVFMATEL VLLSSAPGRVLERLPHI
15702	46070	A	15793	2348	2760	LWLVCINCFIPAFLLMLRWLPR LKPLSQLSVPTYRLPSVPFLKPT GMESPEAISRVSGKGL*RDSDA YSVLSYHYPIIRHPSIIVDIIRS SIDP*PIVDHSSIAKRSCTFPLG YWEVVFVQLTFGQQRQASGILQ
15703	46071	A	15794	2	415	HPGLETTDLLSPLPAALEPQQQ GRPSIQGAPRGSFTRIEAGTPHV PAPCPAAQRNQGWGLVGAWL GFMAP*EQSVASSWK*PLMKS QYSREVISHLPLVPMQQRVPM TQSMWGWLVWFPALFLVQIGH LVMSSGHS
15704	46072	A	15795	428	885	GISMKLSRISAI/NWNKISDDKD LEVWNR/LTSNFWLPEKVPLSN DIGAWQTLTVVEQQLTMRVFT GLTLVDTLQNVIGAPSLMPDAL TPHEEAGLSNISFMEAGHARSY SSIFSTLCQTKDVDAAYAWSEE NAPLQRKAQIIQQHYRGDDPLK K
15705	46073	A	15796	1	1125	
15706	46074	A	15797	57	303	SHKHADALLYPADPVCTAC* LLRGNRRDQSKSITAKRHLTAA HFRFVRMVRHGNH/SRLRPDSF R*PVSPDR*PPLRAAHFR
15707	46075	A	15798	3	430	
15708	46076	B	15799	1	1338	
15709	46077	A	15800	380	1043	WTRWRASADNLAHGRWGEO KLVTVTGASGAPDQAAARCGC IWRKISWYRSKGSKHPLTPKEV EKTGWGLKIRGMGKQQA/ERV KEAARILELDGLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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15710	46078	A	15801	1	900	MAAIAFLITWFLSHDKKRIRILK RLSGGNGMADEFPGGAVVFTV LNLTHWLEDWGLPVHWRSSC MPSGLEYLIVLIFKGVIVAVHLL IVDALNLIRRIHAV/QGSPCVET CQHALDQLIMHSQPTHAVAVF DDENRSSGWRHQGLPDYKAGR PPMPEELHDEMPALRAAFE/QR GVPCWSTSGNEADDLAATLAV KVTQAGHQATIVSTDKGVCQL LSPTLRIRDYFQKRWLDAFPID KEFGVQPQQLPDYWGLAGISS KVPGVAGIGPKSATQLLVEFQS LDGIYENLADVAEKRWHKL
15711	46079	A	15802	1	1350	
15712	46080	A	15803	1618	2082	
15713	46081	A	15804	1	803	MINLIGSDVNYDWLKLPLVHL HWYDKEVRPGRKVGHLNLTDS DTSRLTATLEALIPLLPPEYASG VIWAQSLIRCVKHRIRHCPIAG CGTGCRPDKTRQASHQAQMSN AYDYSEIQGIGKQKAANRVAEP RTYHSFASITDRRADLLKPGNH AQDGRLTAAARRADKHDELFIG NFQKADNRGQVSDSVEGNSNC APVKPAPIPTERIPALMASMPA CASSMPIHACGGTPSPAQAARK ISGSGFEFLSWEASAKVKNSR SSSAKIVGAFRETEASPTICC ARRSASKEKMPG*ARADPHRA HTAGVNGVNARLRIFNADTCL RRHAQPCTGGEKDFRVRFRVF KLGSIRAEQEKLALQRR

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15714	46082	A	15805	1	1655	MRGHNWIDMDQARQSTPHPT DRKICHKNDPRKTTPLRKIDAH PHTLILPAESTLSTTKYKLRLAL LVENTNKDKSAVS VFRGSVL HQAANFPNMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFFESVPAIAAVRG LGSMAIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLTTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLP VVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLLENVRFNKGEKKD DETLKKYAAALCDVFVMDAFG TAHLRAGFLLTGIGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGSKVSTKLTVLDSLK IADQLVGGGIANTFIAAQGH VGKSLYADLVDEAKRLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINAVFSYVTNVWG WAF WYMVVMLFGWFWLVFGPYAK KRLGNPEPFSTASWIFMMFAL
15715	46083	A	15806	1	1359	
15716	46084	A	15807	670	1008	
15717	46085	A	15808	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPLPLKLLGRPTGE YNEEF/SLLPVVNYLKDLSNP V/RLDGVDAEGL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLK /IADQLVGGGIANTFIAAQGH VGKSLYADLV/DEAKRLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSDKISYISTGGGAFLEL WKVKYLPVAVMLEERG
15718	46086	A	15809	465	888	RGLVALSSERRCRLRRNHPS GTRSPDPAGAASLSRRFFYAPP GTPETGCGYSSRSQRKR/LST WRCNS*ETPKSPKACCRPARIP APRSSSVKKASACGPAAMKK RCRKASITPISKITCAIHRMRRW TCTKRAAF
15719	46087	A	15810	417	707	IQIHERSWRYLHWWSSVRRRA A*YGAPL*RDGIQRGTRRISQV YQ*SSVRQLRRDASAGSAPRV CREYAAACYLRHEHWSCDAVS PTPRMLKSFV
15720	46088	B	15811	1	4350	

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15721	46089	B	15812	1	2862	
15722	46090	A	15813	1	1471	MLHSRGFLAEVFGILARHNISV DLITTSVSVALTLDITGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLSKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSIGAGQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQKGGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRQGLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RRGTYQYDAWGKAVRTTQGGG TRSMEYDAAGRVIRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHAUNAQGL ANRCIPDSLPAVEWLTYSGYL AGMKLGDTPLVEYTRDRLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSLLTYRHFANFAL
15723	46091	A	15814	1	1367	MSKLLERFRYFKQKGETFADG HGQVMHSNRDWEDSYRQRWQ FDKIVRSTHGVNCTGSCSWKIY VKNGLVTWEIQQTDYPRTRPD LPNHEPRGCPRGASYSWLYSA NRLKYPLIRKRLIELWREALKQ HSDPAADNDLIARFQSFTNPFI ANRLTGNDRARFNLTIFVNNQH ATAITTTGTFLPEWSTTFIITLIL QSKVQAIDLTKAIVTVGCNTIS TTVHEVVSASIGIATKFWQHIGP CFYVIYDVTVTIVESRTTEYSP DVVVTGLITRITTPDGRASAFYN NHHSQLTSAATPDGLEIRREYD EWGRLIETAPDGDITRYRYDN PHSDLPCATEDATGSRKMTW SRYGQLLSFTDCSGYVTRYDH DRFGQVTAHVHREGLSQYRAY DSRGQLIAVKDTQGHETRYEY NAA/GDIRQCESDLQSPSCSQYR AIDGESLSETARYSVHQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
15724	46092	A	15815	357	1733	TADSPETLRCQTSGENARGAGT VERAGKSLWRSR*SHRP*STR TGDHHCQQTNFSLFN*QHPGQH RVYGSQTAINQSLITHDPEYPEN LPAAPLVRYGWTGPRGELAVVY DRSGKQVRSFTYDDKYRGRMV AHRHTGRPEIRYRYSDDGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLRVVK KEHADGVSVTQSQFDAVGRRLRA QTDAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGPDGLRLREYDELGRLIQET APDGDITRYRYDNPHSDLPCAT EDATGSRKTMTWRSRYGQLLSF TDCSGYVTRYDHRFGQMTAV HREERLSQYRAFDRRGTVIAVK ETQGLETFEYHFVPDGVIAV KG/SRNGNSQSVGKRRSTEDIR G*TRWRGYTADRRAAKTHARV E*HLRARPRVCALFFPKQGERH
15725	46093	A	15816	1595	3228	DNNAKLFRAGQMKVLKPYVDS GKIKVVGQWVDGWLPENAL KIMENALTANNKIDAVVASN DATAGGAIQALSAQGLSGKVAI SGQDADLAGIKRIAAGTQTMT VYKPITLLANTAAEIAVELGNG QEPKADTTLNNGKDVPSRLLT PIDVNKNNIKDTNLPAPLVRY GWTGPRGELAVVYDRSGKQVRT FTYDDKYRGRMV AHRHTGRPE IRYRYDSDGRVTEQLNPAGLSY TYQYEKDRITITDSDLRREVLH TQGEAGLRVVKKEHADGVS QSQFDAVGRRLRAQTDAAGRTT EYSPDVVTGLITRITTPDGRASA FYNNHHNQLTSA TGPDGLRL REYDELGRLIQETAPDGDITRY RYDNPHSDLPCATEDATGSRKT MTWSRYGQLLSFTDCSGYVTR YDHRFGQMTAVHR/EEG/USQ YRAYDSRGQLIAVKDTQGHET RYEYNIAGDLTA VIAPDGSRRNG TQYDAWGKAVRTTQGGLTRS MEYDAAGRVIRLTSENGSHTTF RYDVLEQYCGQVIKAHAVSRF
15726	46094	A	15817	1	627	
15727	46095	A	15818	701	895	

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15728	46096	A	15819	1412	1705	LASISTSCAPPKVNCGVMAIFLASD SRLWSGLRAQATSRSTLSLM TRSGWLAIQ*NALRSWLASHE TKRPPSTLGGNTVPS*ALRLGIL ASSRILL
15729	46097	A	15820	344	547	
15730	46098	A	15821	1	1518	
15731	46099	A	15822	1693	2455	VLAAFTRSKQRYGAPRLTDELRA AQGYPFNVKTVAAASMRQGLR AKASRKFPVSYRAHGLPVSEN LLEQDFYASSPNQKWAGDITYL RTDEGWLYLAVVIDLWSRAMA LLRRKSPGNVIVHTDRGGQYCS ADYQAQLKRHNLRGMSAKG CCYDNACVESFFHSLKVECHIG EHFISREIMRATVFIISNVITIGG GGTVAARGGVP*AVKSNVNDV RRNCLARSSNNGWIFPPVVVNG WRQALATIVAGICC
15732	46100	B	15823	1	1407	
15733	46101	A	15824	1	3252	
15734	46102	A	15825	1	2409	
15735	46103	B	15826	1	2802	
15736	46104	A	15827	1715	1824	
15737	46105	A	15828	410	720	PGSRAVIGWSMSPRMTAHWPA MPCRWRCGGVRTYAPEPTG*R RWLQNCACSS**LRKTSRKNR TT*RTPARSSAPPLMLKQPFT RQWPLNTPWKPPRLSPS
15738	46106	A	15829	905	1008	SCDSYRLSSRAAAVTPMRSASF RASGFLLVILFVCRVSVVGC RLAWSGGSVFRRGVPLAWTVLR WVRRRCGCGVGRCLSAVV YPSGIITVDSARSWRIMGRSGSP LAITVGLAGCWSQRL*TD AFSLKQGRVFTGDTICM
15739	46107	B	15830	1	3148	
15740	46108	A	15831	1896	2062	SVCYPRN*IPSG*N*PRIWSDP VQRREAGKKWLHENPGWRK **PDYHYRSEAD

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15741	46109	A	15832	1	1456	MSTEIARLKRQLADGMKSWLS SKRPRHSTRAPEMKYVFIEKHQ AEFASKQCAACSGWPATAGNV VSAADKDKHASAVPPHCDSVV LAAFTRSKQRLPLNVKTVAASL RRQGLRARPPGSSARSATAHTA CLVRKSVGAGFLRQWPPEPKWA GDITYLRTDEGWLYLAVVIDL WSRAVIGWSMSPRMTAQLACD ALQMALWRRKKPRNVIVHTDR GGQFGDRWK/ALANALNIPLDQ LSARISANPKGGFIYLAREVNP DMADYIKKLLPGIHVREESRR YYPSGEVTAHLIGFTNVDSQGI EGVEKSFDKWLTTGQPGERIVRK DRYGRVIEDISSDQQAHLNLA LSIDERLQALVYRELNNVAFN KAESGSAVLVDVNTGEVLAMA NSPSYNPNNLSGTPKEAMRNRT ITDVFEPGSTVKPMVVM TALQR GVVRENSVLTIPYRINGHEIKD VARITTEEDFNHASAARFVCAA AERALQNH
15742	46110	A	15833	2	929	
15743	46111	A	15834	1	472	
15744	46112	A	15835	1	513	
15745	46113	A	15836	1	254	CDNLKTCHTSHGVSMAETAVI NHKKRKNSPRIVQSNDLTGAA YLSLRDQKRV/LRYEPVSQFRLS ETQKHQSVCFAFIRIPVSVS

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15746	46114	A	15837	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSA YERGQRYASRLQN EFAGNISALADAECNLTCTHT SHGVSMAETA VINHKRRKNSP RIVQSNLDTEAAYSLSRDQKRM LYLFPVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIR/PSRGLYSV HINPYLIPFFIG/LQNRFTQRLS ETKEITNPMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMDFRRLQGFRCFRNH IHQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHFG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDVITYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSA PNLGIGTIN VVCAADVLIVPTPAELFDYTS LQFFDMLRDLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRVTFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLK
15747	46115	B	15838	1	1734	
15748	46116	A	15839	1	971	
15749	46117	A	15840	1	1143	
15750	46118	A	15841	1	556	
15751	46119	B	15842	8	1000	
15752	46120	A	15843	1	1169	MLTLILLDLQFMAQLAGYQMS FNSTKSQTKNNFAVGYRTGD FQLHTNVNDGA EFGGSVYQKV CEELDALINLAWTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPLLEAGVKLNLSALCDN LKTCHTSHGVSMAETA VINHK KRKNSPRIVQSNLDTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIRAH SPSRGLYSVINPYLIPFFIGLQN RFTQRLSETKEITNPMARLY ESLCQYRKPDGSGIVSLKIDWII ERYQLPQ/TYQRMDFRRLQ EEFESLNRQITGSEIVAMINSI STKKSPPGDGFTA EAFYQ
15753	46121	A	15844	1	1509	

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15754	46122	A	15845	1	558	
15755	46123	A	15846	1	1773	
15756	46124	A	15847	1	2256	
15757	46125	A	15848	1	812	MEVLASWATFTLGQTEQHVD WISAGAAPQGPVVKQLPSPVPPT EQLEQEKPTVIGSAPSTPNKLLL SHSNCQLPRPLRSITNISACFSLE LAIDHRGFPHSPGARSLYSNSVF GTYQLCDLCDNLKCTHTSHGS VMAETAVINHKKRKN SPLIVQS NDLTEAAYSLSRDQKRMLYLF VDQIRKSDGTLQEHGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPW/FIKRSPE*RRGKFPFT QMGQD
15758	46126	A	15849	1	1773	
15759	46127	B	15850	1	1755	
15760	46128	A	15851	1	726	MPASGNENDLNMPSGTIEIFVR CYVEVERIMSAWTEQPNHRT MMWSVLLQPCDNLKTCHTSHG SVMAETAVINHKKRKN SPRIVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRG/LYSV HINPYLIPFFIGLQNRFTQRLSE TKEITNPYAMRLYESLCQYRKS
15761	46129	B	15852	356	671	
15762	46130	A	15853	1	2121	
15763	46131	B	15854	721	2739	
15764	46132	A	15855	1	5828	MQEQQQASSLIRSGNGRLPGSG AQRTPCHIRRDGQRRVCD DCK QQWWKAKYNIPSGLHACTATL EETHILDSGAHVQVYFKGQLH VMRVPC TDYFDTKNPNLSHL HGSVMAETAVINHKKRKN SPRI VQSNLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQN
15765	46133	B	15856	537	1318	
15766	46134	B	15857	1	411	
15767	46135	A	15858	1	1356	

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15768	46136	A	15859	1	1215	MPYDRPFTVMAAFPLCPACDK EYRDPLDRRFHAQPVACPECGP HLEWLKMGKIVAIKGGGFHLA CDARNSNAVATLRARKHRPAK PLAVMLPVADGLPDAARQLLT TPAAPVLVDKKYVPELCDDIA PDLNEVGVMPLPANPLQHLLQ ELQCPLVMTSGNLGKPPAISN EQALADLQGIADGFLIHRDIV QRMDDSVVREIRRNAAPF/AGA VLSQHLGDLSDDGIMQWWRER YSLMQNIYDFTQYV VVHDAH GYVSSQWAREMNLPTQTVLHH HAHAACLAEHQWPLDGGDVI ALTLDGIAQPDERSSEDVDRA HQRGHERDRRRRSGTSHLTR VDLKEDGKGLKIVRQSLPYGTA SGTHGLYFCAYCARLHNIEQQL LSMFGDTDGKRDAMLRSNP
15769	46137	B	15860	74	2050	
15770	46138	A	15861	2	703	LQARFPLSWRNPFITFACYAGL FCLSAIY/PDHLCPVSVPRFAA GPRHRRHLLVLRGCGLRH/TK RPGPGPGPARALAIWPPDPGC* RCRRPSPASSLRSSATPTCTST QPALEWCVAVYAIICFILAAIAIL LNLGECTNVLPIPFPSFLSALAL LSVLLYATLVLPYQFDEK YGGQPRSRDVSRRHAYYV GAWDRRLAEAILTAIINLLTYVA DLMHSAHLDFSKV
15771	46139	A	15862	1	849	MAQPLAKQWTPVSPRALLVSI SMPPRPAADVTVCRRHNCRLRE LLYGFAAAAQQLNLHGDVCN DGDG/VEVRLREDPETFLVQLY/ QHCPPLARTGGTMNTQIVPDA ATCPASLSEMNTPGERRYYPF INCTHYGPSFPIIRAMPYDRPFT VMAAFPLCPAC/DKEYRDPLDR RFHAQPVACPECGPHLE/WGIG GFHLAC/DARNSNAVATLRARK H/RPAKPLAVMLPVADGLPD/A ARQLLTTPAGAGLWLGNGYP RAPDNANSTAMSCASHASF GGHPRGR
15772	46140	B	15863	1	2688	
15773	46141	A	15864	1	1578	

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15774	46142	A	15865	1	877	MQAAHRLRPAYRIKTKGKPPAL ADYHPAYQEMLSRKQDRVIDQ IDFGIKDTVEILHMGQIQSMGREG FALSRLFSIHGHNVHGNESPEM GPERRSGFYDEWSPERIQQYYRP AREQLMNELVQILKNTRQHLM TGVSHMIPFVSSGGILLAVSVM LYGKGAVPDADPNLKKLFD IGVAGLTLMPFLAAYIGYSIA ERSALAPCAIGAVVWNSFGAGF FGALIDAFPLSEEINPALPEAK VMACLEAVARQDNVDSPPQLP PTPLFASRPITRLKSWWAPGGE VESGTHKK
15775	46143	A	15866	3	423	
15776	46144	A	15867	633	771	NNRSHPALCTNRPPTRLVFYP LLAPNA*LAALQKGWAYGAGH NA
15777	46145	A	15868	1	4014	
15778	46146	A	15869	1	180	SGHPFIPLKDLTQIAIGDVFNNN LILWANREIHSVP*RY*HDANI QCFVVISSFVRSQQ
15779	46147	A	15870	815	1905	IFQEHIMDHLPMKFGPLAGLR VVFSEM/WRAEVIWIENVAWA DTIRVQPNYPQLSRRNLHALSL NIFKDEGREAFKLMMETTDIFIE ASKGPAFARRGITDEVLWEDKP KLVIHLSGFAHQVSQISTHQG SSNWVSPDQLQCNQTQNSPKQ LFSTHMCQCRPNSTTNSRFQFS NPVNHALNHQSKPHHPLVYVYQ HKAKRAHRAKSITASRKQATTF QQVGAPAGGHTTSSSHPQTT KALEQVKHLTTQAILSKAKPQ ATSPIPRDTGPIRGRQFHALNPS TTVIGQAPANRIGQHGHQPKF KTPFWPQPKKVPNRQCTSKTY SNGEQNIPQTYAIRTKNRSTYPR NLKQQPLNPGKAKT
15780	46148	A	15871	1	361	QTTGISFGGRGAGPGVPTRTQ/ CLRCHGGRHG/HPSHLCKPNKG DPRKIRLKMSWR*PWFAIGPRD WSSSRPKPTSPRGSCRSFIEASK MSAPVVVWSTKTHSSRSMLSFSL MEDFVTALSIL
15781	46149	A	15872	1	447	

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15782	46150	A	15873	1	1424	MILLEQLSQHKLDMIISDCPIDST QQEGLFSVRIGECGVSWFCTNP PPEKFPFACLEERRLLIPGRSM LGRKLLNWFNSQGLNVEILGEF DDAALMKAFGAMHNAIFVAPT LYAYDFYADKTVVEIGRVENV MEEYHAIFAERMIQHPAVQRIC NTDYSALFSPAKLRALYHPAS TELHPACGKDFRQLYRRIQNQI QRHALWHKIFDVEIPHPILIIAR VSANMPHTGCRJAEIWPVKVVE AILRLTNDAPLEYLPIGNHKS MRSEGMNPPYQRQFMELALS VLKCGEFTLNRGRKSPYFFNAG LFNTGRDLALLARFYAALVDS GIEFDLLAPAYKGIPIATTAV ALAEHHDLDLPYCFNRKEAKD HGEENLVGSALQGRVMLVD DVITAGTAIRESMEIIQANGATL AGVLISLDRQERGR*CDHRRNG DSRVDG DYSGQWRD ACWRVD FARSSGTRARRDFGDSGS*A*L QLQSDLYHHPERPDCLPGREAG NGGTSGGG
15783	46151	B	15874	1	1086	
15784	46152	A	15875	484	729	CTQFRKTCFTCKASNGFCFATS CNLIYTSEIIICRGPTG*HNLIASL LQRIDNLRKFIVPTLKYLRTRCR LDDNIMIFYAQGI
15785	46153	A	15876	1717	1971	PANAWAEMWEYSAWQRRMYS MG*TSKVVVHPGATDRW*NTN GCYRIFWIAAPFVPAAVIHGNIL PTHGACVHKFGGRAPAGAAVE
15786	46154	B	15877	1	765	
15787	46155	A	15878	103	823	VPACAGLKKEARSLASPPRLL NTKLQASCALFSPPIQSRQTTG ISFQGRGGAGPGVPTRTQ/CLRC HGGRHG/HPSHLCKPNKGDPRK IRLKM5WR*PWFAIGPRDWSS RPRPTSPRGSCRSFIEASKMSAP VWVSTKTHSSRSMLSFSLMEM PARMPITSSMPSTPLRQGSVKFE DFVTALSILLRGTVHEKLRWTF NLYDINKDGYINQEEMMDIVK AIYDMMGKYTYPVLKEDTPRQ

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15788	46156	A	15879	1	2926	MVKDASQSASLGLDAFLPAS GVQYTHERSPDSPKSEQECP VVNEDTFKQIYAQFFPHGGLMS ENGTGKASVFGSTGSGALLLE EGERRRQPLIEMRKPPHVLIN YQAKVGGNSIPSPSLCKPAFPPL PSWAVDLASARQKEDASRS LQNK EEDFYTSQPGFPALALGCCL RVNLLGHRGISAGSSYRPITST PCHLCKLGQEVFAKPLNLQDQ CQQNLVMQVLKLVNLCLNDFD IGSSADESADDLCTV
15789	46157	A	15880	1	1521	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKSPGPD GFTAEFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASILIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSNVVIQHINRA KDKNHMIIISIDA EKAFDKIQPP MLKTLNKLQANLLKLSNFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKINIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR/PSEI TPHIYNYLIF
15790	46158	A	15881	1	1182	
15791	46159	A	15882	1	690	
15792	46160	B	15883	1	458	
15793	46161	A	15884	1	719	
15794	46162	B	15885	1	3552	
15795	46163	A	15886	1	321	
15796	46164	A	15887	1	362	
15797	46165	B	15888	1	489	
15798	46166	B	15889	1	1660	

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15799	46167	A	15890	1	1593	MGKKQNRKRTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSLEQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRLSR SRCDQLEERVVSAMEDEMNMK REGKFREKRJRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIHQENFPNARINKI DRPLARLIKKEKNQIDTIKN DKGDITNPTIEJTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAIEIVAINS LPTKKSPGPDGSAIEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPHNCFK ENKIPRNPTYKGCEGLLPGLQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQ HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMQNRALRNNAAYL QLSDL*QT*EKHAMGK/EPPI**
15800	46168	A	15891	1	1177	
15801	46169	A	15892	1	3663	
15802	46170	A	15893	1	1995	
15803	46171	A	15894	1	4191	MVKGSIQEEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHIK STEYFFSAPHHIYSKIDHILGSK ALLSKCKRTEITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYVWHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDLTLSQL KELEKQEQTHSKASRRQETKIR AELKEIETQ

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15804	46172	A	15895	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRSLH AKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRKLNLTQNRSTTWKLN NLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGGDI TTDPTEIQTIREYYKHLYANK LENLEEMDKFLDITYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTA NRAKDKNHMIIISIDA EKAFDKI QQPFMLKTLNKLIGIDGTYFKIIR AIYDKPTANILNGQKLEAFPLK TGTRQGCPLSPLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTYYLENPIVSAQNLLKLI SNFSKVSQYKINVOQSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWNIPCSVWGRIN IMKMAILPKVIYRFNAIPKLP TFFTELEKTTLKFIVNQKIRARI AKAILSQKNEAGGITLP
15805	46173	A	15896	1	1740	
15806	46174	A	15897	1	880	
15807	46175	A	15898	1	2777	MGKKQNRKTGNSKKQSTPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKG EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAEMEDEMNEK REGKFREKRJKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLASTLSD HSGIKLEINSKRNPQNHAHTWK LSNLLNAHWVNNEIKMKVKKN FFELNDNSDTIYQNFSD
15808	46176	A	15899	326	3096	QTERSTPKTHLYVTIHKDQK*I KPQRRGKNRGEKLETLSRAP VLLQRNAVQQQQRNKAAGRRM TLTS*EKKSSDNQITPSYRRKF KPMACKLKT/LRKKLDECITRIT NAEKCLMELMELKAKARELRE ECKSLRSQCNOLEER/INKIDRP LARLIKRRKREKNQIDAIDKGD ITTDPTIQTIREYYKHLYANK LENLEEMDKFLDITYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTA

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15809	46177	A	15900	1	2047	MENDFEELREEGFRSSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVSA MED EMNEMKREGKFRKRIQRNEQ SLQEIWDYVKRPNLRLIGVPET LHPRDEAHLKLNLDIAIKNDKGD ITTDPTETQTTIREYVKHLYANK LENLEETDKFLDTYTLPRLNQE EVESLNRPTGSEIVAIHNSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILHQ QQTNREPNE*TPIHNCFKENKI PRNPTYKGCEGLQGLQTTAQ GNKRGYKQMEHSMMLMGRKN QYHENGHTAQGNLQIQCHP* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGSYNQNSMVLVPKQR YRSMQNRALRNAAAYLQLSD L*QT*EKQEMGKGFP**MVLG KLASHIM*KAETGSLPYTYLYKN QFKMD*RLKR*T*NHKNPRRK RHYHSGHRHGQGLHV*NTKSN GNKSN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGENFHN LLI*QRANIQLQ*TQTNLQEK KQPHQKVGKGHEQTLLKRRHL CSQKINHEKMTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS
15810	46178	A	15901	1	3285	
15811	46179	A	15902	1	3681	

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15812	46180	A	15903	1	1854	MKAIEKTFETNENKDDTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQE THSKASRRQEITKIRAELEKIE QKALQKINESRWCFEKIHKID RPLARLIKKKREKNQIDAINKD KGDITDDPTEIQTITREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGTSEIVAINSL PTKNSPGPDGFTAIFYQRYKEE/ RENKIPRNPTYKGCCEG/PLQGE QTTAQGNKRGYKQMEHSMML MGRKNQYRENGHTAQGNLQIQ CHIPQATNDFLHRJGKNYFKV HMEPKKSPHRQVNPKEQSW RHHTT*LQTLQGYSNQNSMVL VPKQRYRSTEQNRALRN NATY LQLSDL*QT*EKQAMEKGFP** MVLGKLASHM*KAETGSLPYT LYKNQFKMD*RLKR*T*NHKN PRRKPRHYHSGHRHGQGLHV* NTKSNNGKSN*QMGSN*TKE LLHSKRNYHQSEQATYKMGEN FRNLLI*QRANIQNLQ*TQTNLQ EKNKPPHQKVDEGHEQTLKKR RHLCSQKTHEKMLIITGHQRNA NQNHNEIPSHTS*NGNH*KVRK QQVLERMWRNRNTFTLLVGL* TSSTIVEVSVV
15813	46181	B	15904	1	2718	
15814	46182	A	15905	1896	5031	TWKGTTSTSRCKIMPKYRSTRQ KVNKDQELNSALHQADLIDIY RTLHTKSTEYTFSSAPHHTYSK TDHIVGSKALLSKCKRTEIHTNY LSDHSAIKLELRKNPTQSRSTT WKLNNLLNDYVWHNEMKAE IKMFFETNENKDDTYQNLWDT FKAVCRGKFIALYAHKRKQERS KIDTLTSQLKELEKQAQTHSKA SRQEITKIRAELEKIEQKTLQ KINESRSWFFERJNKIDRPLAR LIKKKREKNQ
15815	46183	A	15906	4	133	

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15816	46184	A	15907	95	1875	PFFGRKNYRLPSKNMPRRCRSS PLPCSMKMTI*CVLTSTATITRL PAASAQW*LDGRTLVTKNSTR YLHTLHTMGPAPEPNLTILWSE ELPIAFKKYAAQVSIVTSSLQYE NDDLMRITDFNSDDYAIACCVS PMVIGKMQQFFGARANLAKTL LYAINGGVDEKLKIQVGPKTAP LMDDVLDYDKVMDSLDHFMD WLAQYISALNIIHYMHDKYSY EASLMALHDDRVDYRTMACGIA GLSVATDSLSAIKYARVKPIRD ENGLAKDIQGTTEPQFRNSHSR TSGTVTLVLPVSTFVGTGFFIRV DPPKKPLKIRKIEFVEIYEPFSEG QAKAQADRCLSCGNPYCEWKC PVHNYIPNWLKLANEGRIFEAA ELSHQNTLPEVCGRVCPQDRL CEGSCTLNDEFGAVTIGNIERYI NDKAFEMGWRPDMSGVKQTG KKVAIIGAGPAGLACADVLRN GVKAVVFDRHPEIGLLTFGIP AFKLEKEVMTRRREIFTGMGIE FKLNTEVGRDPRESSFYEEKQL IARKALPFIDNKTMAADSSST VMELKLLQDRSGLTLLTNSAE AIHVLAQSEIKVVSTGGELNKN TLSLQGRITKEIIRRYHVDMWL PDELRVKEGFSPTDLKLEAKG QKVALKEAMGSTQSIMVGPDE RRTGFSYLRQNLMIRVKF
15817	46185	B	15908	271	2118	
15818	46186	A	15909	597	743	
15819	46187	A	15910	573	1066	IRAQNGSPWLSFLVDSVCVLKA CVDVAVMRAGICSVSYWQYQS GVGANSSALSGFSQGAIMMLES IKAEPGLASRVIAFNTRYSSLE TASTATTIHLHGGEDPVIDLAH AVAAQEALISAGGDVTLDIVED LGHAIDNRSMQFALDHLRYTIP KHYFDEALSG
15820	46188	A	15911	1	2652	
15821	46189	B	15912	1	1494	

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15822	46190	A	15913	1	1733	MGVGSKGITFGSTTTQHGSFIPY LTGYLTYYTHGHSANPKPAVG GQILTAVLPAHMDGYVSRIMTM NTQLTTLPLTTATHTARQTASLIS VIGRQLRCFRHSSQPSVLTHVR DDSTQYAQLDMANGQPTSHGY EHWAQLMYATDRRYGRHMSD AARQGCSDTGIVKFSHPPEMS VRKFTSARSGCVRSGAWNVTV SAQTRVSQALTTLRRRVHKSMP NALTVPVMAEAPSQAHRGRQ TRRLSLHQTLRLLLTPDWWGV IRRCVPVWGCLEHLDTAGFP PNSHTMPLPIGWNDTRKRLHHS AHNGQHDVAQGRRLVGRKVG LTHPKVQQQLGVDGLSLFCVY LVWYIGLHLRRFPRLAYTICPSL VYGADLRVIVRLFSDSHHMAF GNPQPKHLDCQEYALFLLNSM PDNTAEHYRNKIAIYLHCLPED DRIKAIINEIRMAIHQVSPFREEP VDCVLVWKYSQMLPNDYNPN NVAPPEKKLLQKSIEDGTQPI VVTHTDKNAMEIVDGFHRHEI GKG/SHASLKLRLGYLPVTCL EGTRNQRIATISHNRARGRH ITAMSEVTPELRLLGW
15823	46191	B	15914	1	273	
15824	46192	B	15915	169	292	
15825	46193	A	15916	2	844	KGGVYKTSVSVHLAQDLALKG LRCLLWKGTPPQGTSPMVSRE GDPALHN*CKTQLLCLSYLGEK DDVTYAIKPTCWPLDIIPFLA LDRIETELMGKFDEGKLPTDPH LMRLAIAETVAHDYDVIVVDS HNRGNIGTINVCAADVLIPTP VEMFDYTSALQFFDMLRDLLK NADLKGFEPPVRIIVTKYSNSN GSQFPWMEPIPECLPKHGSKK NNVRNANEVKGQIRMRTVFE QAIDQRSSTGAWRNALSWEV CNEIFDRLIKPRWEIR

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15826	46194	A	15917	1	681	MSIGGSGNSLCTRPKQQGGGTG LKQYEVSVPGTLRCLACPQACT LRKEHWIHFAPKSNYDSCR YIE EYFAYEASFMSVQLTELVIKSL EDLASLFMIHKKNPVSIPHTVW YADDIRRGEEAADVLGLTLYE LMLRAGEAAFQVCRSAYPDTR HWLVLCGHGNGGDGYVVAR LAKAVGIDDTLLAQESDKPLPE EAPLAHEAWWNAAGGEIHALNI GWPESEHLIV
15827	46195	A	15918	3	774	VKCEKCLFLPLGQFSQFTQKLR WIFLDPLFIRKGGVTPATAFAM HLHEYISQGLSILGALDIEGSS DKQRTITITATPSVGALVLPVIY RAIKTHYPQLLRNPPISDAENQ LSQFQTDLIIDNMFCTNRTVQH HGLFAANMVLICREGNPLLSLE DDREAIANAHVLLPPEQNFSS GLRQRVQEMFPGRQINFYSYNI LTIAALVANSMDLAIIPSRLYNL FSRCWPLEKLPHPSLNEEQIDFS IHYNKFSLR
15828	46196	A	15919	1	741	MITVLLIATQFAPYFTEMALKG GFSGFAGESAQISALSVGNMFGW SISELMSLGIGVVVAVGIVASV VLFLRVLSMSWLKEVIGTEKAV IAMCHLRALPGDPSFDAQLGM NWVIDKAWDDLMLQNGGVD AVMFSNEFSLPYLTGKLVPAFLV AREILVRGMYVRGRKMVAFLV CCVALAISAMYELIEWWAALA MGQGADDFLGTQGDQWDTQS/ GYVLRAAWRINDGDIPRSLSLP PATALWLDNRI
15829	46197	A	15920	1	678	MCHLRALPGDPSFDAQLGMN WVIDKAWDDLMLQNGGVDA VMFSNEFSLPYLTQVRPETTAA MARIIGQLMSDIRPFGVNVLW DPVASFDLAMATGAKFIREIFT GAYASDFGVWDTNVGETIRHQ HRIGAGEVKTLFNIVPEAAVYL GNRDICSIKSTVFNNHPDALC VSGLTAGIRTDALLKRVKETV PDTVVLANTGVCLENVEEQLSI ADGCVTATTFF
15830	46198	A	15921	624	734	TRTLRQIVDSRAIPFT*ERLHSP NQPKNPYPPEV

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15831	46199	A	15922	1	1923	MPFALGGGDLEETPRSDPGVTF ACSLAQPMRKPTGVLGNRFHD TQEPVPVGGPGLRGFHLWHAPP LDRPAQFAAIRTDSELMSSANP KSFTASPLMTFTPARSRINRYR YPAGTRAKGENEAAFAARIHSF LPYRRPVFWATTMGAKSAIK PMSTAVTRDASVFQTEYERSRF GARPWPLRKAPEAMGRGFHEI GVQCEAPTANTLEPSRRGAVM AAGLSFQRTPWREVLGRGEGSF LGAGSDPVLRLASLASTPFPGE KHVGSWGMGRIVLRSFALASSS LRHSGERIPGTVLPDDIFACHQ RNYAEVFGIWRITSSVLQPIEPV EPKCISQFLYIVLERRSSSLISLS FNSASLCRSRHDARYVLQHALF CFTTNDFGQIFTTFFVSGSGTR MSLPAEFGVIAQSDQKVLFIDA DLAVVIRITCLPSTMSWLKEVI GTEKAVI/AMCHLRALPGDPFS DAQ/LGMNVVIDKA WDDLMA LKMVRPETTAAMARI/IGQLMS DIRIPFGVNV/LWDPVASFDLA MATGAK/FIREIFTGAYASDFGV /WDTNVARSRRIRASTVFRLAQ RCQPDASEYGFMRMIARVFDVR GDQNSEASLRVSGSIGPRTCAP VAVQSRFRFRLDRSDDVKRF QADTDSLVLH
15832	46200	A	15923	480	900	KTRYSCRGETWSNPQSSQLSAL IAAVRHPATSNVCRSARSCCIL RALRAIQHTGCSAGNVAPFW CQFAPCWRKPLKIEESDSVFM VIKESLWQELADITDKTQLEWR EVFQDLNHHGVVYHSGEVVGLG NLVCEKCHFH
15833	46201	A	15924	1	431	SKVFAVAGCVLMTTTPDSCN SWQKCRNKTMNKKIHSALLV NLGIYGVAAQAEPTDTPAGVS TITADEIRKNPVARVDVSKIIRT PGVNLTGNTSGQRGNRQIDI RGMGPENTLILIDGKPVSSRNS VRQGYRLECGDG
15834	46202	B	15925	1	1352	

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15835	46203	A	15926	31	546	CYCLFVSFSPNRLCCRSAGVC QRYTPDPFCLGITSRGCRRAKIT ACSFLWKLHPRGALARCQPELS CWRCLSTLLEGVSPSGGTGVR DPYEEAVCLAEKCCAGRSA VLFRAQRQGRSLSLKLPQLPF SPCVLCLSKLVPVSPNSTRTSKL LSIPYSRGPALLEVLS
15836	46204	A	15927	2	479	
15837	46205	A	15928	1082	1386	ADPFQEREAEKYANPIPSREFIL EHLTKREKPARSDELA VELHIE GEEQLEGLRR/RQCYALPERLD LVKGTVIGHRDGYGFLRVEGR KDDL YLS/SEQMKT C
15838	46206	A	15929	3	401	
15839	46207	B	15930	1	3675	
15840	46208	A	15931	1749	1941	SQIPTSEAQVMSNLMGTNGVLR PARAYRNEAVLS*ALVSAMYS QTFRNASFGVPQMFSTTSGV
15841	46209	A	15932	5	1465	KRSTTAQIRWISPLTSLKPRSKR QSKSCATKPKKWWVAAPCCWC SPTGISLKTRLPVPAPMAVGAIQ TRLVDQSLRCDANIIIVETASAR DPHHFAVLLGFGATAIYPYLY ETLGRLLVDTHAIAKDYRTVML NYRNGINKGLYKIMSKMGISTI ASYRCSKLF EAVGLHDDVVG CFQGA VSRIGGASFEDFQDQL NLSKRA WWRCLSATIGCCDC TRGYLGGARITGQISSITVWGV IPVVGLCHGWFWFSPTLYVDS WNP HHAPFFSAVGSSIAMTLW AFLGLESA CANTDVVENPERN VPIAVLGGTLGAAVIYVSTNVI AGIVPNMELANSTAPFGLAFAQ MFTPEVGVK VIMALMEMSCAGS ILGGKFTIAQVFKSSSDEGYFLT IFSRVTKVDAPVQGM LTI V IIS ELALMTISP SLNSQLKEMVNLA VVTNIIPYILSMAALV I I QKVAN VPPSKAKVANFVAVFGARN SF
15842	46210	A	15933	1	3666	

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15843	46211	A	15934	979	1626	FSATITPPFIALQVRVRFHPLDAL LLFVISLWLQGLPDELSRFTPF CLALPIIALAWHYGWQGALIAI LMNAIALIASQTGLLLGAGIQR LRELNQLSQKELARNQHLEAERL LETEESVRRDVARELHDDIGQT ITAIRTQAGIVQRPAGAGHPLTDA GNGAGRARVYQPSRMANN*IS VKRKVVVEHRCFVDFTFNDDG AVNVDRRAVRGVFIAAS
15844	46212	C	15935	1	666	
15845	46213	A	15936	1	1137	MGKFGHTEIGEVDVRDWSDAL QAKELQKLPGHSRKLEDPPPTSL FMLLNPHSDQFSSNAHHHLHA TAIDDDYTDPTKSTYALGLNWS NSILGGFNISGYKTYSYDGDND SSNLNINWNKAFKHATVSVNVW QHQLSASENNEDDGLFYVNIS IPFGRSNTATLYTRHDDHKTHY GTGVMGVVSDEMSYYVNAER DHDEPTLPAQNKAQEVLLDVV LDEAKIGVASMLGSRVRVKTW SWFADDKQEIQRGGFAGWLTD GTPLWVTGSGTSKTVLTRYAT VLNRVLVPVPTQVASGQCVEVE LFARYPLKKITAEEKSTTAVNPG VLNGRYRVFTFTNGNHITFVSHG ETTLSEKGLKLQSHLDREEY VARVLDREAKISTPP
15846	46214	A	15937	323	695	FTGPRRSLEIEVAELKQRDLSDL AIGAGGSVCWTLQGAWSPTRA KAGELKTQLATAASLR/MDKH RSNSVGPDLFTLLDDYLHV VDTALWLSGGKASLDGGTLLT NDAGEMLFAEHFHSAGPL
15847	46215	A	15938	1	235	
15848	46216	A	15939	98	593	MSKVRLMRNLSAPPFNAYAKG ESKPGIMSGWVF*AEWAYLITG *AKKKVYGSS/ARIHLRALRY SNWRQYFAGYTFGRQYWSPE DDHLPLLREFLARHEYMQKYL LGTESGIQGEELGASDGKPEEV EWQTAAIEGKLDLLVTLDFRM SSTCLFSDIVLPTAT
15849	46217	A	15940	367	677	LSSCLRATQSAVARNWKAFL RCTVWVWQKRSSTGRNMYLPV RPTILKLRPVHTVW*LSGASL RNWVHCCTRKKKVKCSSAVA* RKRNICPMKLHVSSTRK

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15850	46218	A	15941	1	921	MEMSSLEFLHSCSHLKCHLLY YIASAYNYDWYTPAKLSFISE GEIKYFTDKQMLRDFVTRPAL KEL.LKEAVNMERRNRWVDIGP GTELDCISQAYAQFVASTAECC GEGGIKAWDYVRMGFLSRMG VLNNWLTRRRKLLWSARSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLREFLARYE RPMKKLAGRSSIILAFRGHDQ RDYEFPSKALNIN*LRWALAS VK*TTACATGVFPVSVTGARRF
15851	46219	A	15942	531	637	SIFARLNASRRCT*SYALLVLR LPIIQITAKGIL
15852	46220	B	15943	120	881	
15853	46221	A	15944	1	1583	MADRVDSKCSRSRPGAVAHNY NPSTLGGRGGRITFWLLSANPSI NRGTLEKESRTVAQRLSVLHGI NAPEFFDKAVFSSLVLTLRDEG YISDSGDAEPAETMKVYQLLAE LITSDLMIFNISATVLYITAFIAC SAAVDLTSLRGTRPYNQRAAA SKEIEDLKKKLTEGEEISGCDVS GSDGDDNEEGKIGEDEEKRNT GGNKVFPERTVETPATADAER KALETKLDVEEETRLQLNSRNR KKDLKTRQEHQSLPEKFSGLQK NVLLEAVIDPALIAQLRQAYEE ALRIAQAPAKSVWQPEEYEEA EHEILLAFRALLASDSERFLPSA WQRFIQQLNYCSMEEIDELRWS LCTIAMNTAHLSEFCVVLLAER LRWLQEENTGEIDEEESFLY AIAKGNVNFQITILHLPVAVQN DTIDFYQMFIWLPGAPGAYC DGLHTSKRKTCTTSTHQRQRKD TPPALNPHATCTPPHTWLGAP PPASMRSGPHNAPTPPFTGSTPR HTHDHTNITNANIPHNVNSN

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15854	46222	A	15945	1	1228	MGVLNNWLSEEEELWQSRHLL RALRYYSNWRQYFAGYTFRGQ YWQSPEDDHLPLREFLAYER PMKNCWKILDIETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRVAQSPAKSVWQPEE YEVAEHEILLAYRALLASDSER FLPSAWQRFIQLNYCSMEEID ELRWSLCTIAMNTAHLSEFCVV LLAERLRWLQENTGEIDEEEL GSFLYAIAGKGNVFNQTLHLPV ARRPDICTQHNDQSRCEGYQIL SDKRGHQHGGGITALYQCGNA DPRAKGERLFFDAPAKDSTQTR AEDAHYAGSNMSPDPDQGDG RKQIWESVRVHTPVRCQQRSLP VTSYLNNGGEIFNLIGLICRTRRIA ARWVKSHNRNARSFECLKRHR FVVAFNRRKPLV
15855	46223	A	15946	71	323	AAGAVVSAMPKAKGKTRRQK FGYSVNRKRLNRNARRKAAIR GSNDLEAEASLPEKKGNLTLSRD LIDYVRYMVENHGEDYKVSQS
15856	46224	A	15947	48	627	AAGAVVSAMPKAKGKTRRQK\ FGYSVNRKR\MSRNAKRAAR\ GLECSHIRHAWDHAKSVRQNL AEMGLA\VDPNRA\VPSSRKRKV KAMEVDIEEEA*KNLYRKPYY LNDLEAEASLSEKKGNLTLSRD LHLMYRYMV\ENHGE\DYKAI ARD\EKNY\QDTPKQIR\KIN VYKRFPYAEWQDFLDSLQKRC MEVE
15857	46225	A	15948	796	1301	LTKKDYISPNAKAFVQRLPER NLLTRGLKRQRQPCLSWCWGG QARMPKAKGKTRRQKFGYSV NRKRLNRNARRKAAPIE/CVR GLGFRVAVGLGRDGRDDGSA MSLFAGSSHIRHAWDHAKSVR QNLAEMLAVDPNMAVPLRK RKVLTVQGLGPCLLYSSPAILT
15858	46226	A	15949	512	675	SQDFGPPSAAPSPGMP\PGPSG CSSHRQEDPPDGAAPPGHGL RPGRLQELLV
15859	46227	B	15950	1	717	

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15860	46228	A	15951	587	1387	RARSRLGNPLRLAPAPNSDV GVQRAIFRPICRKAQVPVGSV ANRRRLRQHTRPDPLGTNRSEP GWWDRSWSPDQAKSGQSCVA KIKKNHMHISTDSEKAFDKIQH RFMIKTLKISIQGTHFWKIIKAIC DKLTANIILNGEKLKAFPLRTE MRQGCPRLSLLFNIVLEVLAKA IRQEKEIKDIQIAKEEVRLSLFA DDMIVYLENPKDSFRKLELIK EFSKVSGYKIKNQYCENDHTA VSGVGSFQWICGLADVKNEAA
15861	46229	A	15952	3	3201	SERGFAGDLRYPTHFLSTNSV LASVTASLKEHPRGTLSDGSP ALSRNVGMTVSQKGGPQTSP AGPGTQLGPITGEMDEADSAFL KFKQTADDSLSLTPNTESIFVE DPYTASLRSEIESDGHFEAE WSLAVDAAYAKKQKREVVKR QDVLVELMQTEVHHVRTLKIM LKVYSRALQEVLAQFISTAIGRL FPCADDLLETHSHFLARLKERR QESLEEGSDRNYVIQKIGDLLV QQFSGENGDRLIEK
15862	46230	B	15953	83	1969	
15863	46231	A	15954	1	444	SSESAVEFSEPASGSSPSWELGS EGAIRDKKTSLGAHVGLSALGR ALENTIAFQGGKETDVQKSYDSP QGDCLQDVKGKRPTLE*PSLE NPETRRFLDASYAWRESCLSW HHHTAHDIFAGKPVDPDLPGSTR GQDSAVCSQGQFLIVR
15864	46232	A	15955	2	236	SEGAKRDKKTSALGAHVLSAL GRALEKTIAFGSS/APSKGRKL RSRKVMTRPKGIAWQDVKGKR PTLE*PSLENPEVR
15865	46233	A	15956	1	459	KKVGNYYTTPIYRFRMKCHLC VNYIEMQTDPA NC DYVIVSGA QRKEERWDMADNEQVLTTGE RHPLTCLGAL/DPESALGPPKPS RALIVAHEHEKKQKLETDAMFR LEHGEADRSTLKKALAHTVDHI QEAQSAWKDDFALNSMLRRRF REKKKA

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15866	46234	A	15957	564	1189	AAPKMGERRGVNKKYPPDFNP EEAWLSSTDYHNSHPFRERASG SCSQGLIIRFEMPYNIWCEG/C RTNFGMGVRYNAEKKKVGNV YTTPIYRFRMKCHLCVNYIEMQ TDPANFDYVIVSGAQRKEERL GHWRTMNRLLTHRGIEEEAEA WKTDAMFRAGTMRPTAAHF KKALPKLEPHSGRPRAPWKDD FALNSMLRRRRFRVPSKP
15867	46235	A	15958	2	1047	FVDGKLHGRGSTDIGPVAGWI NALEAYQKTGQETPVNVRECL EGMEESGSEGLDELIFARKDTF FKDVCVCSIDNYWLGKKKPCI TYGLRGICYFFIEVECSNKLHLS GVYGGVHEAMTDILLMGS VDKRGNILIPGINEAVAAVTEEE HKLYDDIDFIDKEFAKDVGAQI LLHSHKKDILMHRWRYPSLSLH GIEGAFSGSGAKTVIPRVVGK FSIRLVNMTPEVVGEQVTSYL TKKFAELRSPNEFKVYMGHGG KPWVSDFSHPHYLAGRRAMK TVFGVEPDLTREGGSIPVTLTFQ EATGKNVMLLPVGSADDDGHS QNEKLNRNYIEGTKMLAAYL
15868	46236	A	15959	163	1388	RLVERWRPSGTLFKYIDENQDR YIKKLAKWVAIQSVSAWPEKR GEIRRMMEVAAADVQKLGGSV ELVDIGKQKLPDGSIEPLPILL GRLGSDPQMKTVCIYGHLDVQ PAALEDGWDEPFTLVERDGLT WCSSCRGPYCRGSS/DRLSWKL PSVMWGDREPHLARLD/HPSG LEPQRPGSTWGGDDRRGGRA LSRQLPYAGYAAAQCKGEVRP QVSSSRLVVECSNKLHSGVY GGSVHEAMTDILLMEEHKLY DDIDFIDEEFAKDVGAQILLHSH KSHLHLDLLPVVVRLLGQALFH TAHFDPNIPSSKDILMHRWRY PSLSLHGIEGAFSGSGAKTVIPR KVVGKFSIRLVNMTPEVVGEQ ACGAGTRESMSSLYGPSRAED DSGLSALPSQPQPFILYAT

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15869	46237	A	15960	3	433	FETLFSQVQLFISTCNGEHIRYA TDTFAGLCIQLTNALVERKQPL RGIGILKQAIDKMQMNTNQLTS IHADLCQAITPAMAVSHIMLE SYKKYILVSLILGKVVQLPKY TSP/QLVGRFHKPLSNAIYHEL HKLYSTNNPC
15870	46238	A	15961	46	1481	TGSDVAAREDLRWIAAAPPR AAAFSRACCLRRSGRPGENMA SALEQFVNSVRLLLSQGCSCFP GQMTQLCELINMSGELLAKNLS HLADTVLGAADVQEHSLGVL VLFVKFSMPSPVDFEILFSQVQ LFISTCNGEHIRYATDTWQETV LLKSMVLVLVVIYYQLRGIGIL KQAIDKMQMNTNQLTSIHADL CQLCLLAKCFKAALPYLDGDM MDICKENGAYDAKHFCLY GGMIYTLGKNFERALYFYGQ AITTPAMAVRHIIWV/ESYKKY ILVSLILGKVVQLPKIFHLKLV G*IPLSLLSNAYHELAQVYSTN NPSELRLNVNKHSETFTRDNN MGLVKQCLSSLYKKNIQRLTKT FLTSLQDMASRVQLSGPQEA KYVLHMIEDGEIFASINQKDG VSFHDNPEKYNPNPMLHNIDQ EMLKCIELDERLKAMDQEITVN PQFVQKSMGSEDDSGNKPSS
15871	46239	B	15962	1	3411	
15872	46240	A	15963	689	925	
15873	46241	A	15964	1	244	GSAPQSCASAPVSRSAAPGTA EAAEPWAIIVGVEQKNYYVCV PLGLIGNCTVTSSGSLDCADW CLKWKSILMESLEVP
15874	46242	A	15965	469	604	
15875	46243	A	15966	286	433	
15876	46244	A	15967	4356	4643	DCPLARNKSKPOTVCLKARQTF QAINFSRALRITGYLTSFPLSRS TLPSAGDFRASAWA*SGPTV* TLTSVPSVGINSYIYEPVFRTLL SGE
15877	46245	B	15968	1	1472	

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15878	46246	A	15969	918	1619	KTHVLSWGSPPKSTWKAGWLQ KQKTTQEKKAESKAPIIEEPAG AGLNKDKETEERSDGERVAEV APEERENVAVAKLQESQPGNA VSCSGGRRKEDEREDWGKRTQ RTHPPAAAQAPGQCPPPGSTEVG AGGGLRWTPSPGRQPAGVAAD MGITVLTVP LQRCLQNSWAKE PVLVVSFVIGSLTVILPPLSPYTK YSIMINEATPYNYPVPVHDDGN M/PDMCSHPQGPQGSLEWL
15879	46247	B	15970	183	459	
15880	46248	A	15971	864	1197	GSFRLGHGRIPPFHLRGMKESL GPDFGDPCPCLNSGPGPPGV SAGGAGAGCGGMGRRDAWVP TGPVAESPGHLAPISPRQGA PWGGPCGQLGAGTLGQAVCG MTQDP
15881	46249	A	15972	1	441	
15882	46250	A	15973	3	182	
15883	46251	A	15974	23	475	PLEKGRQFPQYEDQITFTDYL EEYPTDDELVWLWKQHLKKT EKSLLSDISARLWFTYRRKFS /ILGGTGPSSDAGWGCMLRCG QMMLAIQALICRHLGRDWSW EKQIEQPQEQRIQLQCFLNRKD CCYSIHQMAQMGVGEKGSIGE
15884	46252	A	15975	224	418	
15885	46253	A	15976	743	1220	WCWGHVRVRLVLAAGPSSRGVL LLLVLVLPWSASFVVRCAWVG VLGDDGVLGGLLWLG VVGR LAVLRADLAVCVGVVACVPF VVLPICAALVRVGC SLVEAALG L GARPLKTFFAVVVPLTKGGV VAGSMLVFVPAVGEFVPELLG GPD SIVIGRV
15886	46254	A	15977	3	3492	RKHKVGILYCKPGQSSEEMSN NEEAGPAFEKFLSLIGEVCLK GFTKYAAQLDVKTDSTGTHSL YTM YQDY EIMFHVSTLLPYTPN NRQQLLRKRHIGNDIVTIIQEP GALPFTPKNIRSHFQHVFIIVRV HNPCTDNVCYSMAVTRSKDAP PFGPIPSGTTFRKSDVFR/DFLL AKVI*RLRNAAEQVPTSFTPWA TRTRQEYLKDLAENCVSNTPID STGKFNILISTSKKKEKTKARA GAEQHSAGAIA
15887	46255	B	15978	402	2884	

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15888	46256	A	15979	294	1721	AVRPGRHDPASAGLRSAASQ* VRGHPGGLCA*GSIQGPASAA EGPPAHSRAA*SKGGAELRTR* AGGRRPAGPHAQR*LP*GPRV PLRPPSGTFLLP/PPACTPITSRPS *KSCSRASPTPTWSS*IPASGTSP GMVRTPEGA/PGEPEPVVPG PGAARVLPPGVE/PRPCLWARK SPGVFRPSSGGRPPS*KTKWS KPTSTAPRP/P*TLRCTGLAFPL PPREGEPALGRGALEWTCAPLP LPAAAGPRGRRLGCGAAPPPR GRVDQEEK/PGRVPEGPPQANR NHPALPLSPPLSPPT/*PPPAWVP TPALAAAPAPVPTASSHSPSPG NAPVPTGSPRCLFRLPYFPVGS ILLPFRCLISPCRFLRRQFYG WSSAAYALLPHTPLSAACPSGP TTALHGQPQSSCCQEAFTTV KSGVVQSGRPSLRQFYVHDFCK IQPQQLLVSHATTKATTDTRYST ASCVAR
15889	46257	B	15980	35	314	
15890	46258	A	15981	1	197	
15891	46259	A	15982	3	3889	
15892	46260	B	15983	172	287	
15893	46261	A	15984	8	166	
15894	46262	A	15985	250	1095	
15895	46263	A	15986	366	870	NHSLAKKGTAHGLGMEKCCGR SPFFSFFPWSIAKPTLRSSSSWPH SSSSPSMSSPLQRAVGDT/KRAL SASSSSASLPFDDRSNHPSEA CTTPGGGWEVADGNTDSLAD EGSDFEDSFNRNVKKKAAKRP KTPPV/AKQPKGSRVVHRHSR KQSEPPANDLFNAV
15896	46264	A	15987	30	229	ALETNIGSSYNYGSEDQAEFLC VVSSELHSTPNGLSSESSRKT/ CYKPEAPGCEAPDHLQGLGVI
15897	46265	C	15988	1	930	
15898	46266	A	15989	1	609	

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15899	46267	A	15990	1	875	MRMEAGEAAPPAGAGGRAAG GWGKWVRLNVGGTVFLTRQ TLCREQKSFLSRLCQGEELQSD RDETGAYLIDRDPYFGPILNFL RHGKLVLDKDMAEEGVLEEAE FYNIGPLIRIIKDRMEEKDYTVT QVPPKHVYRVLCQCEEELTQ MVSTMSDGRFEQLVNISSY NYGSEDQAEFLCVSKELHSTP NGLSSESRKTKSTEEQLEEQQ QEEEEVEVEVEVQVQVEADAQ EKGSRPHPLRPEAELAVRASPR PLARPQSCHPCCYKPEEPGCEA PDHLQGLGVPI
15900	46268	A	15991	1	2448	MRRGETRSRRPPQCFWAFAHV SRSSRRGEFFSDFRWKKHSEV RESAQVPTTKREPVLQHKINIK IVIALVDILFALGLNLVCVSPV QLFSVQTDSTRATGDQRLPSWT AQRVGTRTLPGDGFTERCPYGP SPESLLCSALPWLRDLGMPVAE APQVAGGQGDGDGEAEPEG MFKACEDSKRKARGYLRVL FVLLALLVLASAGLEMLSDPGS RSYGSGLPAPWAKCPKAPHQR SLIPPDYAPGVNHPPPPQERCSM GLRTQGTGLGRHRVLSAQQVAF SVSLLMAKIAFAKQKSDDIIPDF KLFMVTLVHRPNRLSARVLT VPVLPAPCPMLLPLEGYKAEV MVSQVYSGSLRVLNRHFSQDL TRRESSAFRSETAKAQKMLKEL ITSTRLGTYYNSSSVYSFGEGPL TCFFWFILQIPEHRRLLMSPEVV QALLVEELLSTVNSSAAVPYRA EYEVDPPEGLVILGQYCEWKPPG RRMQTPRPAMRMEAGEAAPPA GAGGRAAGGWGKWVRLNVG GTVFLTRQTLCREQKSFLSRL CQGEELQSDRDETGAYLIDRDP TYFGPILNFLRHGKLVLDKDMA EEGSQVWTVTSGGWGDRNAV LTGMGRALSFLWLIQYLFCL VRAWVLEAEFYNIGPLIRIIKD RMEEKDYTVTQVPPKHVYRVLC QCEEELTQMSTMSDGRFE

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15901	46269	A	15992	1	573	MPGLLSRPRRGLRARPCGGGE ALPEHVAIDVCPGPIRPIQGISG YFPHFPRDLPHDAPARPATASA GRRRPSDGDARDHDKDGDHLEFG SLTIQHRPW/PAPSPDFPFPFAV LYPGILKPMMDHNGLADPCVKL HLRPGARKVPEACQLAPDLQD SSCLTAITKAHDVLTVFLPAAL KIQGNKYLTFFCQKLF
15902	46270	A	15993	500	2022	WTREKEPPGVETHGKASRTTL GLSLWCCLHLSEIQSSFISDCAR PRCSGRLPGSGPMLLATPHVLA TVVASSCSKQLWWLPKVAATD QQQMKLLKGLFIAGAPPGSPR/G VQPHLQPIRNMVSVRTMEDSCE LDLVVYTERIIAVSFSTANEEN FRSNI.REVAQMLKSKHGGNYL LFNLSERRPDITKLHAKVLEFG WPDLHTPALEKICSICKAMDTW LNADPHNVVVLHNKGNRGRIG VVIAAYMHYSNISASADQALD RFAMKRFYEDKIVPIGQPSQRR YVHYFSGLLSGSIKMNNKPLFL HHVIMHGIPNFESKGGCRPFLRI YQAMQPVYTSGIYNIPGDSQTS VCITIEPGLLLKGDILNSEILFGV DELSLTGFGLKCYHKKFRSPAR DVIFRVQFHTCAIHDLGVVFGK EDLDDAFKDDRFPEYGVVEFVF SYGPEKIQGMEHLENGPSVSVD YNTSDPLIRWDSYDNFSGHRDD GMEGAQHPIQGDTPPGPSDPP
15903	46271	A	15994	171	720	LSGSAGKVAAPCVPPSNHEL PITTENAPKNVLDKGERPSRGG NTRKSLVTTASTGSPR/GVQPH LQPIINMNVSVRTMEDSCELGPV YRTERNIAVSFPSTANEENFRSN LREVAQMLKSKHGGNYLQRN VSL/RRLSPLRHPGPWPSPQEP GMCQGEPPGPPATLWPMPCGPT VLESPGGPGP
15904	46272	B	15995	145	972	

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15905	46273	A	15996	2	1096	W P V L T A A G C W L Q D P A G H R G G R A G G A G R A V L F Q L Q A G R A E L R G L R A R G W A R S W A P A P G C Q R T G R D A A A A G R R A G A G A L L G F T C L L L A A L C G H L G P S W R G G L A P G G E W I W L R A S E T R G P S G P R P A L M G S Q K I R N I T R T R H G P L H W L H S G C T T A T P F C L T R S C S D A A C S L K G L P C L C P C G L S V L I R V R L E L R R H Q R A G H T I P R I F Q A V V Q R Q P E R L A L V D A G T G E C W T F A Q L D A Y S N A V A N L F R Q L G F A P G D V V A I F L E G R P E F V G L W L G L A K A G / M E A A L L N V N L R R E P L A F / C L G T S G A K A L I F G G E M V R A P P P N A Q A P P L T P V S P A D R L F Y I Y T S G T T G L P K A A I V V H S S A R P S C P S S R T L R A A H R
15906	46274	A	15997	397	597	S I K S P E I H S P S T R I R M G C S S L P T E E A H A E G V I E L S R I K C V E I V K S D / D R I P C H Y K Y P F Q V S P S G G S S P
15907	46275	A	15998	1922	3886	E G D N K L R P R I R R K L F P L V V L R G D A Q G A P P F K N W I M N N F I L L E E Q L I K K S Q Q K R R T S P S N F K V R F V L T K A S L A Y F E D R H G K K R T R K G S I E L S R I K C V E I V K S D I S I P C H Y K Y P F Q V V H D N Y L L Y V F A P D R E S R Q R W V L A L K E E T R N N S N S L V P K Y H P N F W M D G K W R C C S Q L E K L A T G C A Q Y D P T K N A S K K L P P T P E D N R R R L W E P E E T V V I A L Y D Y Q T N D P Q E L A L R N E E Y C L L D S S E I H W W R V Q D R N G H E G Y V P S S Y L V E K S P N N L E T Y E W Y N K S I R D K A E K L L D T G K E G A F M V R D S R T A G T Y T V S V F T K A V V S E N N P C I K I Y H I K E T N D N P K R Y Y V A E K Y V F D S I P L L N Y H Q H N G G G L V T R L R Y P V C F G R Q K A P V T A G L R Y G K W W I D P S E L T F V Q E I G S G Q F G L V H L G Y W L N K D K V A I K T I R E G A M S E E D F I E E A E V M M K L S H P K L V Q L Y G V C L E Q A P I C L V F E F M E H G C L S D Y L R T Q R G L F A A E T L L G M C L D V C E G M A Y L E E A C V I H R D L A A R N C L V G E N Q I K V S D F G M T R F V L D D Q Y T S S T G T K F P V K W A S P E V F S F S R Y S S K S D V W S F G V L M W E V F S E G K I P Y E N R S N S E V V E D I S T G F R L Y K P R L A S T H V Y Q I M N H C W K E R P E D R P A F S R L L R Q L A E I A
15908	46276	B	15999	58	1526	

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15909	46277	A	16000	3	378	GASPDGLGGRVLGAGASAEPR GRPFPGSPPLGGPPVPGQCQAAP SLRDPWGLWAPVLQMTGSYEF KLNQPPEDGISSVKLSPHLTPSP GLSPSWETSRLYDVPGNFM AVKYQHTGARPGNGPF
15910	46278	B	16001	83	2851	
15911	46279	A	16002	296	1186	AENHPGVLVEGKMTAPERM KHESNYLRGTAEINLNDGLTG GFKGANFLIRFHGMYYQDDR DIRAERAQKLEPRHAMLLRCR LPGGVITTKWQAIDKFAGENT IYGSIRLTNRQTFQFHGILKKNV KPVHQMHLHVGLDALATAND MNRNVLCTSNPYESQLHAEAY EWAKKISKQLLPRTRAYAEIWL DQEKVATTDEEPILGQTYLPRK FKTTVVIPPQNDIDLHANDMNF VAIAENGKLVGFNLLVGGGLSI EHGNKKTYARTASEFGYLPLEH TLAVAEAVVTTQDWDG
15912	46280	A	16003	225	386	GLCIPVVRSPCQLWGQKGPCM LRDEGRVFT*LS TKKNCPGNMR RK YETVDCRR
15913	46281	A	16004	386	739	PLLIHWR FATIEEADHRLAAG ARTFQ/PLCGPPQAQAVWR*AQ *FQFADRF PASRWRRASSGRRF SRSGRRARCQSVAKRRRQIHEC GRSTPDCRCRMRQQYRCRDA RRYQNRAPRR
15914	46282	B	16005	10	1468	
15915	46283	A	16006	3	1267	GRSRR**PPSAVPHDPAVQRER DTQSLSVII*MQIYNFSNTHTLT NHNTFLT FHKTTAETFQHIGP QPTTDTPYHTAEAYCCQLVKLI RRQALRRCWQAAILKCNKSP TNHCTS

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15916	46284	A	16007	1	1673	MTPICTVFRALSRLPDLWHRSI GTLTEALPQTDKRQEIAVALT SYSGLYGLGYGSKEIQLTYSGT ESGIWPFPPYSPNATHKGCGRHR FACPIAPHFLVIEPQSALGSCPS VEVDPGGCVFGAIRLLVLRDAP SFSRLNLTLASGESLQGGPGFV GVSKVYAFLVVRNPTGTPMFT GTFEIPKWPTFPIPPVFORLGSF VLQLQGPRSPGQCEYDRELVS SRSVSSCLLVGLTHLLSYKDA GVDIDAGNALVGRIKGVVKKT RRPEVMGGLGGFGALCALPQK YREPVLVSGTDGVTGTRRLAL VLKRFVFIGIDLAMCGNDLVV QGAEPFLFDYYATGKLDVDT ASAMISGIAEEKSEILDGSKVSD GDVLIALGSSGLHNGYSLVRQ ILEVHRAAADVLSADAVSW RAPYQTSSGLRKKINQGVSVF DLHLSEVAQMVNYPGFQDIDV AVIEASALAPDGRVWLTSGIRN APTWLLRAKKVIIELNHYHDP VAELADIVIPGAASRRNNGSIFH AMDRLGNPHVQIDPEKIVAVV
15917	46285	A	16008	425	595	
15918	46286	A	16009	315	721	QCFRALGGHRRRIADRGENIQV WIEPGC/INDLLKWLNALDEKY RSRLVWARSSKNSLCASEANW LEMNNRLSKGDLPCIRPILIMLI R*TCSYGFTALR*TQNAAGGGD SLAGGIGIFTLVFFTLPAYAIRW LPR
15919	46287	B	16010	652	858	
15920	46288	A	16011	238	2526	
15921	46289	A	16012	21	522	IPCCRSTRKTSAGLSITSEQRR AAVSRISVTSLLASAG/VRVYRQ HHARDVRERPVDKL/PR**TPC SARLSLYGPSR*WW/MARVLIF VTLPVRSRIVTVSPMRIGFSNRH RPEIKLAKISCKPKPRPTPSAAT SHCNFDHSIPIIEKPTSPISIRY LVMVMA
15922	46290	A	16013	2	527	

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15923	46291	A	16014	1	1734	MVNGCDSTNASSYANVNGCDS TNASSYANGERCDS TNASSYA NGQVRSTNASSYANGERVRL DNASSYAIGERVRLDERTSYAN GERVRLDERILLANGDRVRHHE RILERKATFNNSGTTCCRAVYS RVSAMTAPDKAFTPHRQRCRLP DATLARLIRPQIPAPSVGRIRRL RRIGNSANCLMRRLRVLSGHKF PHHPMPNVSAANGYRSFFPMAS YMTFFFGYLTAWSYCLCGCRW GSLKSPPLALCPVLVPGDGAVD TRIDAVLVANLANAAVRLYA KSSSAAGIINFVLTAAALLAVT AACTVATYALRTGKNRQYRA MQSFRSSIDNRVDTFFKGTGA LGISVTVIAVTCKSRLVYPIPVY TGLSLPQRPVAVVKVNEGSMET KDLIVI/GAGINGAGIAADAAGR G/LSVLMLEAQDLACATSS/ASS KLIHGGRLYLEHYESACEALAE REVLLK/MAPHIAFPMRFRPLPH RP/HLRPAWMIRIAENIS/DFVEP KLCLPRMGTRESVLPGVCRNY ESTITSVISVSPCERDMANYVPR HSAGYRRRFYPMTQPIKDAVEP VDQDWKAGKEMAASRS
15924	46292	A	16015	1	5895	
15925	46293	A	16016	170	371	
15926	46294	A	16017	216	477	
15927	46295	A	16018	2	263	
15928	46296	A	16019	1	2862	

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15929	46297	A	16020	1	1567	MKLNKAGFNVPEYSLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCSE TMMDEHITTEENQGSNLSPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDV AHD SRSIQLAML RD DEILTHPVFNRYHSEMMRY MHSLEKDLALNQAMIPLGST MKLNAAEMIPITWPEFAELHP FCPPEQAEGYQOMIAQLADWL VKLTGYDAVCMQPN SGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIARIEKMGPV\IKCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPLFEHSDVEIADVFLQ RARQAQGDIPQSALIIGGGDV AMDVASTLKVLGCAVTCVAR EELDEFPASEKFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRKNSAGNHP
15930	46298	A	16021	62	329	
15931	46299	B	16022	289	334	
15932	46300	A	16023	1	2991	
15933	46301	A	16024	418	3156	
15934	46302	A	16025	1	2169	

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15935	46303	A	16026	800	2406	SSRRMFPPAIRLLLICLPARRWK SAL/GEEQLQNLQIHSQEMGISP SLFSTQPLWQIAMVLQATQAQ KLGRLAEYGDYQLLQAAKQQ HKPVIELEGAENQIAMLLQLPD KGLALLDDTLTHWHTNARLLQ QMMSWWLECEGGERERIFPVS KRMGKKLDVFGDNHTASLTE TEEYRKSQVHFICIDKRERSSG NYQSIQGCERSA AFFIPSNSTRK RGESMYRMDKLTGGAAYGAS AGSILNGMLNAYSPEQWNAIG VLTTAAAGAEMNPTRLNKLVG AIVGGSGAITIAAVMLGNADGL EGRYYAYQDVVGVTVCDDG HTGTDIRRGHRYTDKECDNLL KADLRKAIITYISGYSGTNGIRDS LLFSSLWLIPVFLFPKRKIIAAVI GVAFSRFIASHLAVAFESDPEAE IRQLNSRRVELERALSNHENDN QQQRJQFEQAKEGVTALNRILP RLNLLADDSLARDVDEIRERLD EAQEAARFVQQFGNQLAKLEPI VSVLQSDPEQFEQLKEDYAYSQ QMQRDARQPGVCP
15936	46304	A	16027	2336	3105	HGNAIALIASQTWRDHPVDLLL SLLVQSLT/GRRLRELNQLQKEL ARNQHLAERLLETEESVRRDV ARELHDDIGQTITAIRTQAGIVQ RLAADNASVKQSQQLIEQLSLG VYDAVRRLLGRRLPRQLDDL LEQAIRSLMREMELEGRGIVSH LEWRIDESALSENQRTVTLFRVC QEGLNINIVKHADASAVTLQGW QQDERLMLVIEDDGSGLPPGSG QQGFGLTGMRERVTA LGGAFF ISCLHGTRVSVSLAQRHV
15937	46305	C	16028	1	1374	

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15938	46306	A	16029	1298	2896	GAFTCCATAGGCMNIRKKNRL WIACAVLAGLALTIGLVLYALR SNIDLFYTPGEILYGKRETQQM PEVGQRLRVGGMVMPGSVQR DPNSLKVTFITYDAEGSVDSY EGILPDLFREGQGVVVQGELEK GNHILAKEVLAKHDENYTPPEV EKAMEANHRRPARPSIMMPEIG NGLLCLALGIALLLSVYPLWGW ARGDARMMASSRLFAWLLFMS VAGAFVLVNAFVVNDFTVTY VASNSNTQLPVVYRVAATWG AHEGSLLLWVLLMSGWTFAVA IFSQRIPDIVARVLAIMGVSV GFLFILFTSNPFSRTLHLAYPN RCQPINWRGRHLVWYLLFVIS LWLQLGLPDELSRFTPFCALPI IALAWHYGWQGALIALTMNAI ALIASQWRDHPVDLLSLLVQ SLTGLLGAGIQRLELNQSLQ KELARNQHLAERVLETEQSVR RDVARELHYDIGQTITAIRTHA GIVQRLAADNASVKQSGGLIEQ LSLGVYDAVRPLGLRLPAQLD DLTLEQAIPLT
15939	46307	A	16030	15	277	KIGQKAPLGEARGGERTSRTA KNFGYEEMLSELEA/HRRG/WL KRV*PRMKLPPEALVETFIQLF DAPSQIMPLTSPILLIAIEMGS
15940	46308	A	16031	1	2916	
15941	46309	A	16032	1	2862	
15942	46310	A	16033	1	3099	

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15943	46311	A	16034	1	1567	MKLNKAGFNVPESYSLKMPVP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCSE TMMDEHITTEENQGSNLSGPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDV AHD SRSIQLAMLRD DEILTHPVFNRYHSETEMMRV MHSLERKDLALNQAMIPLGSGT MKLNAAAEIMPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPNSSGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVLT.TTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLD AEIARIEKMGPV\KCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPEHSDVEIADFLQ RARQAQGDISI PQSALIIGGDDV AMDVASTLKVLGCQAVTCVAR EELDEFFASEKFTSARELGVSII DGFTPVAVEGNKVTFKHGDRL TAPFLGVADKRNKSAGNHP
15944	46312	A	16035	367	849	NNFCSTTSHHGQHHHTDHRGC EQNVCHRDAICQTLFRITTKDDS NFICLIEAQSACHKDVNYNHDS QKNAADHHDKQQ*SPANFMPD TINDGFAERCINHQNGRLVSF RNPFPIARHPVTNPRPGKMPQH KRQQQLQHNFTDLLKAAPCTV NIHHQTNNQQW
15945	46313	A	16036	1	1066	MHQRPRTRNAVEQHFRSRLQY YALHAFETIPIPLMRGRSIPAL VNNKLRSLERFSTRKIDDDA LARLVSCAWPGNDFELYSVIE LALSSDNGRIRVSDLPEHLFTEQ ATDDVSATRLSTLSFAEVEKE AIINAAQVTGAPFWWLGDKVL TIPLTLGMVAAALTDLDDRLAG RLRNLIITLFCFFIASASVELLFP WPWLFIAIGLTLTSGFILLGGLG QRYATIAFGAILLNAIYTM LGT SLYEHWYQQPMYLLAGAVWY NVLT LIGHLLFPVRPLQDNLAR CYEQLARYLELKS RMFDPIED QSQAPLYDLA L ANGLLMATLN QTKLSLLTLRGDRGQRGTRRT GIL
15946	46314	A	16037	1	951	
15947	46315	A	16038	576	669	

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15948	46316	A	16039	1	1047	
15949	46317	A	16040	2	425	
15950	46318	A	16041	148	1052	RARRGVSVKAKKQETAATMK DVALKAKVSTATVSRALMNP KVSQATRRNRVEKAAREVGYP QPMGRNVKRNESRTILVIVP DIDPFFSEIIRGIEVTAANHGYL VLIGDCALIQQEKPFIDLITKQID GMLLLGSRLPFDASIEEQRNL PMMVMA NEFAPELELPTVHIDN LTAADFVAVNYLYEQGHKRIG CIA GPEEMTLCHYRLQGYVQAL RRCGIMFCRFTAEGVQEIDYKD IA TLKNYITESGGVTLEIHFFIA EYSDNQRANAGGGVEDEIEVLE SLRLNENHAIKERC
15951	46319	A	16042	3	741	
15952	46320	A	16043	237	1542	FHRLWTRFLSPSPSRGGTDNA AGRTKMPPSPVIF/WFALAQFV GVKHSRSHIPFAAVRSHKARIS ISRSDVATSILPQLS*RMPP*SQ KALVARFPARQNCAPRLPGV*/L DPGMDHAAVVARLVTRGGIV WFGDFYRSVDDIHFGAWGDL AKECFDIVIPQNTARTYPHAN AEGVRTMKQINAAIGRQTNRM MAHWVIRSSRHYRRLNSLCFI TGADVCRWFPQHVPGRDSVA HVVVQHVITYRLRLGLLHFAG DGGVNAITVFIGTFAITVIHLLA HHFAQVRRRESNLRVIVSVNR LSACLIELLLGDIPIQHPRQHD VTPRDGTIHRVERVEGRRFRQ PGYHRHFVQRQLVDRFSEIDLC RSTDITIGAVTKVNLVQIKLEDL VFRQQLFNANREEDFLNLTHQR AFWTEEEVSRQLLNGTCLP
15953	46321	A	16044	1	1059	
15954	46322	A	16045	104	349	RSAA SPWKTRKALVCCSAVVIS PALKISMIVTISVQAHG*LRKGS GVKAALSWWKFPQTMKPTITS SLTGRRISCRSRVKR

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15955	46323	A	16046	1056	2373	GPRLVQRSDHRPHDANYRQYL AGLSVHDDPLHGLAEVIPDDL YEASMDGAGPFQNFVKITLPL LIKPLTPLMIAFAFNFNFLI QL.TNNGGPDRLGTTTPAGYTDL LVNYTYRIAFEGGGQDFGLA AAIATLIFLLRIPRRTTALQGM SNLNMESSRWARANRRLKAIN TLSLTLITQSCETYLIQNTPELI TDTFREFFDTPVETAQDVHKQL KRLRRVIAWTGERETPVITYSW VAAATRYQLLRGVISNTKINA TEEELQGEPEVKVESAERHHA MVNFWRTLSCLGLTFLFWLT GWTSGSGAMVMIADVTSLAM RLPNPRMVAIDFIYGTALALPY GGGRPVAVGVFYGGCYCTRDL LTRAPPPNAAPTAARYGPRTP RTLKRGITDVRCEKRHHQQA RNAGYQTVFSDLDRLRHPALR

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15956	46324	A	16047	1	2581	MVLMGLAQNIWQFLILRALLG LLGGFVFPNANALIAATQVPRNKS GWA LGTLSTGGVSGALLGPMA GGLLADSYGLRPVFITASVLIL CFFVTLFCIREKFPQVSKKEML HMRVVVTS LKNPKLVLSLFVTT LIIQVATGSLAPILTLVRELAG NVSNVAFISGMIA SVPGVAALL SAPRLGKLGDRIGPRKILITALIF SVLA VPIRHFEMRSKESRPSAW VTPKGEWGKGSVELVEIPTNDE TNDNIVAYWTPDQLPEPGKEM NFKYTITFSRDEDKLHAPDNAW VQQTRRSTGDKVQSNLIRQPDG TIAFVVDFGTGAEMKKLPEDTPV TAQTSIGDNGEIVESTVRYNPV TKGWRLVMRVKVKDAKKTTE MRAALRVWNKPGQNHQHLGN GFYGGVYGGYLETMFGGAGAE VLYRPLDSNWAFLDANYVKQ RDWRSAKMMKFTDYSVKTG HLTAYWTPSFAQDVLVKASVG QYLAGDKGGTLEIAKRFDSGV VVGGYATITNVSKEEYGEDFT KGVYVSPLDLFSSGPTRSRAA IGWTLPLTRDGGQQLGPGYTDLL VNYTYRIAFEGGGGQDFGLAA AIALIFLLVAIMFPLLMVVAIS LRQGNFATGSLIPEQISWDHWK LALGFSVEQADGRITPPFPVLL WLWNSVKVAGISAIGIVALSTT CAYAFARMRFPKGATLLKGML
15957	46325	A	16048	1	765	
15958	46326	A	16049	869	1012	MAISFMMSCFVT*VAANSAILL SMSWRA*SNSNGP* LANSILLS AAC

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15959	46327	A	16050	1	1854	MTLSGNSDTDFEKTVTSVPALPD VVSDSDMSLNALS SVTLADNVQ LSFRSDSYSGQPSVIYTTQPRRT AGSEDAPVWPEAFTEDVRHNR PPYPVPIPRATRPACLARERMAM YMRPQIKTIGKAPAEALSNRP MQGPQLSSASTIPVTPFHWLFG SHAAGHFSQHAHRTALTGHFS HLATTLKGLALEGNAIFTTTRFT RPYGHKNTTPHSP LCSAPHSPIF NSRRK VYGGHQGPQWWAFIHS RPGSSSHSILHCFALVCPGLVV QRDTPHPIRPALCPPIAIAFSLSL WLGNSPSPSGTQHLQGPKTFQQ QASPSK VCPKRLICTVIPQQRV ASHHHFHGHNRYYQLGLPVQH CTLQGVIRATHFIPRTARNQISH VSWGAGPAHSDSQGKDLE/H EPIKPLDNSEKASKV/SQALET TTTAEKVQRQ/PVIAHLIRATER FNDR/LGNQFGFVLAS/HPMLL QDIFDKILQNS/DPTLAATLKNT INTAVHSHLVAPAGDGIFLLLRP FDAVCAA WIAIAEYKDYPGMP GKTHLKIRLMRRERLIGIRFYSG LLPGTKAPYSRTLAFKRVLHTA LSLHGLGKTCTTGELCSLTL EYASNAFTYWPDWHINRIKKN N
15960	46328	A	16051	249	724	EKVKKTQRKEIENVTNITGVVRQ IELWRRDDLQHPRLDEVAEEVP VALVYNGISHVVMASPKDLE YFALGFSLSEGDIIESPRDIFGM DVGVPACACNGLEERRALDGR TVAGCGVCGVEQ/LLNDIGKPV QPLAFTQT/FDLNLKLDALRHL NDFQPVGN
15961	46329	A	16052	71	408	RYLSTASQTSIQIAGLSRSRA FTTFGSKGILLSHTSVFIPDRCT SFSMMPTCSASLTSCHPFQMTS LLSSHHP/FKCKKFGTKTGHCL CPSLNCLPCCFSQIMVIKQVIL
15962	46330	A	16053	668	905	CLHVLHHLTSHCPQMTKPYST IHFLPRMTSLSSHHP/FKCKKF GTVKTGHCLCPSLNCLPCCFSQI MVIKQVILEKCKK
15963	46331	A	16054	834	1057	ARLLFMDLLDERTLVAVERPL VTSLSSHHP/FKCKKFGTKTG HCLCPSLNCLPCCFSQIMVIKQV ILEKCKKTK
15964	46332	A	16055	1	1011	

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15965	46333	A	16056	191	631	NLLRGNKMATQSSPVITDMKVI PVAGHDSMLLNIGGAHNAYFT RNIVVLTDNAGHTGIGETPGGD VITYQLVDAIIPMLVGQEVARL NKMVPQVHKGNQAADFDTFG KGAWTFELRVEAGAGLEARLL DLGKALNVSGCELLGHGS
15966	46334	A	16057	2	335	GARQQQKFVLIAGGFP*QLL*T NAVIGREFRNVQECIGLHTAGF ANAVTKHFGKCAIALHNMAFR IEDNHRSEVMVNGNQLSGLFF LRHFYAGIPYQRQVINFLGAH
15967	46335	A	16058	736	910	RVSTPRATGTVPQRDYLPSVVA TG*PDSFHTYLFVRTY*K*V*VL AYLNTRQNDGDFP
15968	46336	B	16059	17	1699	
15969	46337	A	16060	3	440	
15970	46338	A	16061	1	564	
15971	46339	A	16062	1	1062	
15972	46340	A	16063	203	425	LNNWISWLLHMMCLMKVAN CFRS*DRRELAVSAFFVLL*AM RLRRSSSGFLANLAHLQKMKL NSSTYVPPTKH
15973	46341	A	16064	402	713	RGVAISLGQSKSHGYIHFQVAQ REPEILG/DSIKA VRWCSLHGRL M***M*RD LKQWFSAP EA*VSL GTL CVIGQKAVGSLALMSWEP TPRPMGLLSTSR TLYS
15974	46342	A	16065	944	1305	LPLWFISALRLAGIAVWCVLST GFEQIRMIFAGLED RQSAL/FA ADAEDTGKKNMVRAR/IDARF DPTIGWPSSLGLLFSNRTPWVPF PFFFQVPQLHTFIRGILJWKTFP FWIFPPFPASSW
15975	46343	A	16066	1	756	

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15976	46344	A	16067	50	1191	CLTIAVFFPAPQCPMFSPICHT ARDGERAASMIQDYIFCFFSASF MKLKPERMHSHIERAQTSDMLK DCRRHLPIGILMAGGMFAVLRK KHQQTIERPRISLTCMLPSW ATFLWLFTRIGQVLVTCLLMSR ECFVNE/VQVIATVSVNPQVN PDIVAMIGASAAALSLGIPFNGPI GAARVGYINDQYVNLPTQDEL KESKLDLVVAGTEAAVLMVES EAQLLEDQMLGAVVFGHEQQ QVDSRGSPKGNRTCDNYIVIEG LIDYVNDMIENVSEEAFCVENR IMRHSDDHSCIVVRLSLFALD LVLVVIASVVNPCLLEVTRLR AASIVSQPNLNSDTWGIGAILY GAYTCSCIADPHKMMSSGPMY SHSCVEK
15977	46345	A	16068	401	1518	LILFMST/ALLDAVVKKNRVRLI PYMLALYVLAFLDRSNIGLAKQ TYQIDTGLSNEAYALGAGIFFV VYAFLGVPAANLLMRKLGARTW IGTTTLWGFLSAAAMAWADTE AKFLIVRTLRLRAAEAGFFPGMI YLTSQWFPQRNRASIMGLFYM GAPLALTLGSPLSGALLEMHGF MGHPGWFWFMFVIEGLLAVGA GVFTFFWLD DTPQARFLSKQE KTLINQLASEEQKVTSRLSD ALRNGRVWQLAHYLTQVAVY GLIFFLPTQVAALLGTVKGFTA SVVTAPWVAALFGTWLIPRY DKSAAKRYTRPHRECGYFSAPY HPPKVRNNAPHSGPGICLIRL RVRVRPNLGIEVYKHDSPPNNA
15978	46346	A	16069	283	822	

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15979	46347	A	16070	1	1400	MTDLIQRPRLRKSPALRAMFE ETTLNLNDLVLPIFVEEIEDDYK AVEAMPQVMRIPEKHLAREIER IANAGIRSVMTFGISHHDETGS DAWREDGLVARMSRICKQTVP EMIVMSDTCFCEYTSHGHCYV LCEHGVNDATLENLGKQAVV AAAAGADFIAPSGAMDGQYDV FVRNENYWGEKPAIKITFNVI PDPTRAVAFETGIDLLYGNE GLLPDITFARFSQNPAYHTQLS QPIETVMLALNTAKAPTNELAV REALNYAVNKKSLIDNALYGT QQVADTLFAPSVPYANLGKPS QYDPQKAKALLEKAGWTLFAG KDIREKNGQPLRIELSFITDAL SKSMAEIIQADMRQIGADVSLI GEEESSIYARQRDGRFGMIFHR TWGAPYDQRPQSQRVRQR*F QAQQD*MKKPTQSKWNRATR VRGGEILTKFVLTAPLKWLKR SNSRRVSFAG
15980	46348	A	16071	592	1427	IPIGVTPCFSTLRLTLFALLACAS FIVHAAAPDEITTAWPVNVGFL NPHLYTLNQMFQAQSMVYEP/LV KYQADGSVIPWLAKSWTHSED GKTWTFTLRDDVKFNSGEPV/D AEA AAENFRAVLNDRQRHAW LELANQIVDVKALSKTELQITL KSAYYPFLQELALPRPFRFIAPS QFKNHETMNGIKAPIGTQPPWN LQESKLNQYHGFGRNENYWGE KPAIKITFNVIPDPITRAVAFE TGDIDLLYGNQRLPLDTFARF SQNPVYHTQLSQIWNQ
15981	46349	A	16072	1	1071	
15982	46350	A	16073	585	1072	RPARDVPLPIRGLQPSLRGPQQL PEKPAVEVRLDKWLWAARFYK TRALAIREMIEGGKVHYNGQRS KPSKIVELNATLTLRQGNDEET VIVKAITEQRRPASEAALLYEET AESVEKREKIMSPRGPPFVGAP KNPRGFLKLNALTMHPDRRP DKKERRDLLR
15983	46351	A	16074	36	356	ASHTLARKSC*/PSLLYQENQA HNQMPASELKASEIPFHPSTKTQ DPKAEESPRSKR*L*QRQVLP DPAADLSVKPPGLMLPLCYLS GPADITVLKASQDGLIIA

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15984	46352	A	16075	1	2111	MNTPLQSAHTHLTLVEFIAYLV SDSPFPAASTLSLPTCNFDCPT KLGAGTMPAAAGGQRRPHAA PPAAYPHRNKVRAAEARTSRA VRREYEAGDEASGRRGRGGRM KSVQNARADRGMWVRRERRAV VRGQENTVVVFAAASPESDFL QIVLRDIAREMVPEYKSDLQPR TQMDAKKPRKCDLTPFLVLKA RKQKQFTSAKHLWVQRKGKG VEDHADWQGGQWVGVEGKSA EQQGLNLTGAFNRSPENKVSFQ GPALNALEIDSSYLDPQALALP QGWQGLLPPLLTGTELVGSKLS VQIQKPPSPNIKNSRMTQVFHKN TSVTSLPFVDTKGKKNTVSFPHI SKKVLLKSSLLYQVSDGLDPE KAGERPGFSPKPVLERPRIVGKS TVAAEEENQAHNQMPASELKA SEIPFHPSIKTQDPKAEKSPKK QKVTLTAAEALKLFKNQLSPYE QSEILGYPELWFLGLEAKKLDL APEKFSKTSFDDEHGFYLVH DHIAVRYEVLETIGKGSFGQVA KCLDHKNNELVALKIIRNKKRF HQQALMELKILEALRKKDKDN TYNVVHMKDFFYFRNHCITFE LLGINLYELMKNNNFQGFSLSI VRRFTLSVLKCLQMLSVEKIIH CDLKPENIVLYQKGQASVKVID FGSSCYEHQKGHLPSRLRSAVT TTSMLNKVLRFSPEKLPHLQFE

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15985	46353	A	16076	28	1327	GYKMPVITLPDGSQRHYDHAV SPMDVALDIGPLAKPLVIRQ GAAGLMAKLVDA CDLIENDAQ LSIITAKDEEGLEIIRHSCAHLG HAIKQLWPHTKMAIGPVIDNGF YYDVLDLRTLQEDVEALEKR MHELAENYDVIIKKVSWHEA RETFAARGESYTVSIVEENSAD DDKPGLYFHEEYVDMCRGPHV PNMRFCHEFKLMKTAGAYWR GDSNNKMLQRIYGTAWPDKKA LNAYLQRL EEA AKDRHKIGK QLDLYHMQEEAPGMVFWHND GWTIFRELVFVRSKLKEYQYQ EVKGPFMMDRVL WEKTGHWD NYKDAMFTTSSENREYCIKPM NCPGHVQIFNQGLKSYRDLPLR MAEFGSCHRNEPSGSLHGLMR VRGFTQDDAHIFCTEEQIRDEV NGCIRLVYDMYSTFGFEKIVV
15986	46354	A	16077	1692	1776	
15987	46355	C	16078	1	1341	
15988	46356	B	16079	83	373	
15989	46357	A	16080	2	64	
15990	46358	A	16081	1695	2293	EMISNPFIPSSILPLAKIRNIGIMA HIDAGKTTTTERILYSGYTRSL GDVDDGDTVTDFMAQERERGI TIQSAAATFEWKGYRVNLIDTP GHVDFTLEVERCLRVLDGAVA VFDASAGVEAQTITVWRQADK HNIPRIVFLNKMDKTGASFKEYE VITISLQKSGITKLCFFCVLKL V SQERCQASKCNKIEGQRFNQ
15991	46359	A	16082	1	2901	
15992	46360	A	16083	1196	1740	FWLKAMPTIVTASPRWFSC/LR EIRSAASAIATAIQQAIRPSTV IATLLSNSHGNSSDSTSVMK AIINKLRILRGRSRPQRTRGPTPS SSANGTISQVNMVLKNGSPIEL PSPCLCTNGSSVPSNTTSIAAT SKTLFANSKSDRSHALFTRER TLCPRAANSSSEPANHQHKKGE D
15993	46361	B	16084	49	398	
15994	46362	A	16085	378	566	
15995	46363	A	16086	1	2184	
15996	46364	B	16087	311	4963	
15997	46365	A	16088	12	335	
15998	46366	A	16089	1034	1400	

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15999	46367	A	16090	1767	2973	SGARRLAG*KPGNAVSAAPFYF YARPV/SMISPMILIPC*CWKC/D PAAKRQFRERTAVRCVAQFVD VGKLIPFWGLCVGIYATNSAET FLHRVVQLLNDSEVHTLQDAIT IRDEDTATPSPADEVAYIQLSG GTTGTPKLIPRIHNDYYYSVRR SVEICQFTQQTRYLCAIPAAHN YAMSSPGSLGVFLAGGTVVLA ADPSATLCFPLIEKHQVNVTL VPPAVSLWLQALIEGESRAQLA SLKLLQVGGARLSATLAARIPA EIGCQLQQVFGMAEGLVNYTR LDDSAEKIIHTQGYPMCPDDEV WVADAEGNPLPQGEVGRMLTR GPYTFRGYYKRSSVLGKGSDCS FGVFLPGLLPASSVRRDSNVSI RNVVSLINSSRWKSGFTWHDN VLQLDGSFPLT
16000	46368	A	16091	845	1920	YPMMRK/RLMKLWREAKALHS DPFEPWASHIEDADKAKSSKQA RGRGGFVRSWQEVNELIAASN VYTIKNYGPDRVAGFSPIPAMS MVSYASGARYLSLIGGTCLSFY DWYCDLPPASPQTWGEQTDVP ESADWYNSSYIIAWGSNVQTR TPDAHFFTEVRYKGTKTVAVTP DYAEIAKLCDLWLAPKQGTDA AMALAMGHPPERESGRYRLIPV PASGYPPDPAPEWDQFPVHVEL CDTANGCPLPELASPAGYTSSIN RVSTCVSTLAKSYRSRVRVKR LRRRFNGGVHFRVVAVVIDQ HICRTAFTIIIWLQREFTEIEKTAT SPLEAFKRPQNSLVVNALFRSN RNAAAAFSAL
16001	46369	A	16092	1	209	VSFMIIAALMMMGIDTGWLLV AAGFVGAI/IAS/ARPGNRSKRL IALISAIGMSIFLQNYVSLTEGSR DVA
16002	46370	A	16093	194	657	CLDHILRAVQSLRLPLSVPAAM RPGAAGYTMVYGIIGMIN/FAH GEVYMIGSYVSFMIIAALMMM GIDTGWLLVAAGFVGAI/IAS/ AYGWSIER/VAYRPVRNSKRLI ALISAIGMSIFLQNYVSLTEGSR GLATEMFLEKGDNGTEDGRAR
16003	46371	A	16094	1	3303	
16004	46372	A	16095	3	5071	
16005	46373	B	16096	144	326	

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16006	46374	A	16097	282	599	IPVSI SGCHLAGAGTQTASGV P VHPHGH LAHQRSFIGNTKTEC WPISVPPHHW*A**TDIGAGSG DDQRVLDVW\WNWRTKE*P*W W*PTNGLCRKVANRQAAR
16007	46375	B	16098	1	276	
16008	46376	A	16099	812	1084	
16009	46377	C	16100	1	1608	
16010	46378	A	16101	173	504	SADSKPVLPRTSASLVSASCSTR CGLRQASMESNNLTMVFGFSIG K V W M R S * N S A T S L A K S R I S F G T R R R W H S C S T N / S N T R R A M T M M T R P E F W R R Q P C G L S I A A I E S V I K V
16011	46379	A	16102	1	816	
16012	46380	A	16103	742	1182	PAFIECSKAQENNHKGNCYQSG SLVSR*AFLIRHTRPVITNARR*F *RKVFHQRHGIAGTGSWRGFPL NLH*RQTVVAFQSRRAIHPM*S GKGREWHHFVAVGAADIKFIDIF WQHTEFGIRLNTRRAMTMMTR PEFWRRQPTEIVA
16013	46381	A	16104	550	884	KRYGMAASFHSGEITTHRTAP WRMVVMSPARSMADLAQTA WRG/APRPLPDLATMTMPQAY/ NSIQYDAEKSLWHNVE/NRQLD AQFFHMGMGFRRLTLWAGITN AQVCGWTA

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16014	46382	A	16105	2363	2856	MLTLWSSPTTTRRWRWAASSV ANTLA*MTLSMAAMLSPQVDV RFATLCHDLGKGLTPPELWPRH HGHGPAGVKLVEQLCQRLRVP NEIRDLARLVAEFHDLIHTFPM LNPKTIVKLFDSIDAWRKPQRV EQLALTSEADVRGRTGFESADY PQGRWLREAWAQAQSVPTKAV VEAGFKGVEIREELTRRRIAA SDTIPQLNEHDHRRRHNAKIN GERDQRNALNQLQEGFNRYQR HHKSGDQPNKGHRDIAACQEA PALVEIERRCAHHHRHQQERK SEQHAARFGIANGDLVRVWNK RGQILTGA VVTDGIKKGVVCV HEGAWPDLENGLCKNGSANVL TADIPSSQLANACAGNSALVYI EKYTGNA PKLTA FDQPAVQAN TRPLRLARNQHRAFRCRITFHR FTRJMWVEIQRFNGNHPFGRV RIQDSLVCVCGALRYISATFNVV RKRAVTCVRSFGSDFTGSPPLR APKGESIRLLALREAGIIHILAL GEDYKMEINESRTVLKTEDNSY SFDVFIDARGORPLKVKDIPFP LREQLQKTGDEIPDVGEDYTLQ QPEDIRGRVAFGALPWLMDHQ PFVQGLTACAEIAAACGPFDDK RIEGGIVVRMAKEGETLVLLDG TEAKLNADTLVIADHNKALAM GGIFGGEHSGVNDETQNVLLEC AFFSPLSITGRARRHGLHTDAS
16015	46383	A	16106	390	636	KFLSFRPDRVCVACAEERAGL CLRQCITGHPEACLAIPVLVCVE CWGGTDADQPVA VFPSRFSQV SPDRGT*QWLCWKFL
16016	46384	B	16107	1	520	
16017	46385	A	16108	142	243	
16018	46386	B	16109	275	919	
16019	46387	A	16110	1	693	
16020	46388	A	16111	522	714	

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16021	46389	A	16112	1	900	STCSSRSHLHLIQASPILPNYVA TAAVAARIADVQGISDTCVIAQP SPPHPGALRTLVTFTDEPETPQP PGAAGFQLVQKKQVQLHNVLY VMTPHAFAGQTVITYLPGEQQT LSVAPLKNVVQLVTQGHRLDR LWWPGAFLLDFAAKVKALKD/ YPNHVMAQRASGEAEADDDV AATIKSVRQQLNLNLTGRPLV KLDPDFVRVDENSNPPLVGDT LYTVQRPGTEQGSFKVKRARA RVQRTRAPLFGPKSPAPEHMES ELEFELIGPSKSTSGNPRGLRSE RPVLFCLYPEMPTAAAAR
16022	46390	A	16113	150	649	NALLGTCPGTARFFGTGSAPTL HPDASRSGRGAACPRSAQWS PRPWQSVAGLAWLGAHWGSR STSRTAETTASKRGHPRSPAQA LPPGPRPPRAPQLQRALQSVHP LSRPRAPLA/EPKLTAACWAEA VKITTVRYSDSCSRLLTDLGKP VQSMMLLKDIRKVYNWQ
16023	46391	A	16114	153	740	THQLFLPHHQEISQTTWLSAA WPRHTCAHSLSPLOPPVPSFRP HVPLPGPSKTSWSDGPRQLSLPG/ RPSERTPRR/CRSASGQPPHLGG EERLCLAAPSGRICHCEGDDES PLITPCHCTGSLFVHVHQAQLQQ WIKSSDTRCCELCKYEFIMETK LKPLRKWEKLQMTSSERRKIM CFSDIPRHCPRMCGLLVCAH
16024	46392	A	16115	1	1194	
16025	46393	A	16116	323	642	TGYARQKPVPAALGWWTNVSAS TAPPILPSITGSRSLAVIKWLTVS AGKLSALLCASCQKGG/VGEM ANGNGERNHKQIGDVTLTPPQ HYRKIYQPIAARSCIRCVCGS

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16026	46394	A	16117	1	1782	MAGIRSTLIKEKNMITYEATV VTIDDIHVHEVNLGKRIGYVIK TENKETPFTVVDIDGSPGNVKT LDEGLSLLSLVSVVMKLFYQ YEQRFGMRSTSLNVIGSNTIAI YTTTHRII.VEIFSLTLAQMNAA RWSPQVELTLLVYPFVSLFICT VAGLLNLTVMPEQYRYTLPV KAGEQRLGELTGAPCATLVA EIAERHAGPVVLIAPDMQNALR LHDEISKFTDQMVMNLADWET LPYDSFSLHQDNYLLVAFQPFY QLTDDAAVGVLIIVPNTLMQR VCPHSFLHGHALVMKKGQRLS RDALRTQLDSAGYRHVDQVME HGEYATRGALLDLFPMGSELPY RLAIGNVVAQAEVLNLESGAK QVLQETFGYQFRPGQEEIIDT VLSGRDCLVVMPTGGGKSLCY QIPALLNGLTVVVSPLISLMKD QVDQLQANGVAAAACLNSTQTR EQQLEVMTRPRIGDGTGALRK RVAQLAFKNQPMVMGNWAQS ILHGGVIASALDVAAGLVCVGS TLTRHETISEDELQRQYRGWGP LIFALICAQAGASVLLLLVACC VQAIKSPSPALNYTMKNSFILPV
16027	46395	A	16118	380	1431	TALLIRDMPPYVEAYPNENLTT VMPEQYRYTLPVKAGEQRLLG ELTGAACATLVAEIAERHAGPV VLIAPDMQNALRLHDEISQFTD QMVMNLADWETLPYDSFSFH QDISSRLSTLYQLPTIQGGVLI VPVNTLMQRVCPHSFLHGHAL VMKKGQRLSRDALRTQLDRAR YRHVDQPAHAGGKVLVEMIVVG IATWLGFLLFGLNYSLLAVLV GFSVLPIYGAFVVTIPVVGVAL FQFGAGTEFWSCFAVYLIQAL DGNLLVPVLFSEAVNLHPLHHR EQIGGNKMADRQCRKIVCATV RQLPEGGRGEMANGNGERNHK QIGDTVLKATGSKQGDGQNHG
16028	46396	A	16119	1	940	

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16029	46397	A	16120	114	1380	NRVHCRRCSSGGDTGVSHLKG NVKYRYELTDSVGVMA SLGFA ASKKSSTVMTGEDTFHYESLRG RYVSVMAGPVLQISKQVSAYA MAGVAHSRWSGSTMDYRKTEI TPGYMKETTARDESAMRHTS VAWSAGIQINPAASVVVDIAVE GSGSGDWRTDGFIVGISGVLKD GTGKPVQNCITQLKARRNSTTV VVNTVGSENPDAGRYSM DVE YGQYSVILQVDGFPPSHAGTIT VYEDSQPGTLNDFLCAMTEDD ARPEVLRLLELMVVEEVARNAS VVAQSTADAKKSAGDASASAA QVAALVTDATDSARAASTSAG QAASSAQEASSGAEASAKAT EAEKSAAAESSKNAAATSAG AAKTSETNAAASQSAATSAST AATKASEAATSARDAVASKEA AKSSETNASSSADYAAAS
16030	46398	A	16121	165	299	GILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW
16031	46399	A	16122	1	388	MGSKSWVTQKGPAPAKSSQV GRVKQATATDTGRTRDSHMER PKCSKGYLCLPYMALQQHHLL SDVTVRGFGVAGATNILFRQQKH LSDAIVEVRLCGSDLVLYGTST PKNLIWVMHVVGHRPDRR*C CCNA/SVRQTQISLRAFGSFHM AVSGSSSVSGCSLFHSAHLTAL CFSWPLLCYPTLGP
16032	46400	A	16123	130	414	
16033	46401	A	16124	1	387	
16034	46402	C	16125	1	1611	
16035	46403	A	16126	318	401	
16036	46404	A	16127	519	658	YPGSLLASKGTKLDGE*V*RS RLQKVGNNKLLQAKGACSNPT QES

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16037	46405	A	16128	1	1837	FRPRLVAAKPSVFADVQSMES VGTGGGAAEAGGVRSRGLCPT RMLPGLAAAAAHRCSSWSSLCR LRLRCRAAACNPSPDRQEWQNL VTFGSPSNVVPCTHPYIGTSLQ EKLYSTNVHKEGQGSHTLREE KVPSFVTAEGVGAKLISPLKQE PLQVRVKAVLKKREYGSKYTQ NNFITGVRAINEFCLKSSDLEQL RKIRRRSPHQDTESFTVYLRSD VDAKSLEVWGSPEALAREKKL RKDAIEYRERLFRNQKILREY RDFLGNTKPSRTASVFFKGGP KVVMAVJICINGLNCFFKFLAWI YTGASMFSEAIHSLSDTCNQG LLALGISKSVQTPDPSPHYGFSN MRYISLISGVGIFMMGAGLSW YHGVMLLHPQIESLLWAYCI LAGSLVSEGATLLVAVNELRRN ARAKGMSFYKYVMESRDPSTN VILLEDTA AVLGVIIAATCMGL TSITGNPLYDSLGLGVGTLLG MVSAFLIYTNTALLGRSIQPEQ VQRLTELENDPSVRAIHVDVKA TDLGLGKVRFKAEVDFDGRVV TRSYLEKQDFDOMLQEIQEVKT PEELETFMLKHGENIIDLGAEV DRLEKELKKRNPEVRHVHVDLEIL
16038	46406	B	16129	1	1065	
16039	46407	A	16130	1248	1658	PLALPEFISKSWKERLTDTTVLF LKARRQSLCLQIGDPLES/ILQ AFCVLSVAKESQLYTYLHAIMR TLKSSIARGARTFQSTSDGTVKS RPSKIIFLPRLHDFRFSALRHL DPKKLDLGDGSRSAIRPDRRF
16040	46408	B	16131	969	1026	
16041	46409	A	16132	339	432	RYMVLSEFRSMQTGITKWKERI L*NCRKRE
16042	46410	A	16133	3	443	HTWNSDRMTMYLQRRHIFKNC FWLQAGYSLGAPSWRSLVTWV QIIFSDFYRKTLCSNSPLF*SLC QRQSTLLGTLIFCSYASSPEAI NSAAPRVRSRPTDPKARSPRG VGGAEGNGSRDTEPKGGRPLA TPSQGERLMAGVTVK
16043	46411	B	16134	34	1426	
16044	46412	C	16135	62	217	

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16045	46413	A	16136	1	609	MIPVSEKSKIGQLNMLKGKKT KGKKVALVPAAVKKQEAKKV VNLLEFKRPKNVGIG/QDIQPKR DLHARFVKWPRYIRLQQQTAIL D/QFIQALDQQTATQLLKLAKH YRPETKQKNKQRLA/RAEKKA ASKGDI PNKRPPVLQAGVKTVT NLVENKKAQLVVIADHVDVPE LVVFLPVLHCKMGVPYCIHGGK ARLGHVHRKT
16046	46414	A	16137	1	824	GTRPKMPKGGKAKGKKVAPAP AVVKKQEAKKVNNPLFEKRIPK NFGIGQDIQPKRDLTRFVKWPR YIRLQQRALILYKRLKVPAINQ FTQALDRQTATQLLKLAKHYR PETKQEKQR/LARAEKKA WPKGTFTPKRPPVLRAGVNTV TTLVENKKAQLVVIADHVDPIE LVVFLPALCRKMGVPYCIHGGK ASLGRIVHRKTCTTVAFTQVNS EDKGALAKLVEAIRSNYNARY DEIRRHWWGNGVLGPKSVARIA KLEKAKAKDLATKLG
16047	46415	A	16138	1	799	
16048	46416	A	16139	1	344	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKNV EHTEPYILPLITHSQPLNRGAFF CPGVRFVVSVDLDFEKRLAFAS *SCGVQLRIRGKVQGVGFRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16049	46417	B	16140	1	1323	
16050	46418	A	16141	1	1356	
16051	46419	A	16142	1	1524	

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16052	46420	A	16143	173	2310	QQWASRTRRWRSLLTLCVDA RSQHDYIALSRLFHTVMLFDVP VMTRLMESEARRFIALVDEFYE RHVKLVVSAEVLVEIYQGDRL KFEFQRCLSRQLQEMQSEYLKR EHLAAKPTVKRDWYVVDAT GKTLGRLATELARRLRGKHKA EYTPHVDTDGYHVLNADKVAV TGNKRTDKVYYHHTGHIGGIK QATFEEMIARRPERVIDNRRGS LRQAGYAIHDGGNSMAKNST CGVQLRIRGKVQGVGRPFVW QLAQQLNLHGDVCNDGDGVE VRLREDPETFLVQLYQHCPPLA RIDSVEREPFIWSQLPTEFTIRQS TGGTMNTQIVPDAATCPACLA MNTPGERRYRYPFINCTHCGPR FTIIRAMPYDRPFTVMAAFPLCP ACDKEYRDLDRRFHAQPVAC PEGPHLEWVSHGEHAEQEA LQAAIAQLKMGKIVAIKIGGG HLACDARNNAVALTLRARKHR PAKPLAVMLPVADGLPDAARQ LLTTPA/APVIVLVDKKYVPELC DDIAPDLNEVGVMPLPANLQH LLLQELQCPLVMTSGNLGSKPP AISNEQALADLQGIADGLIHN RDIVQRMDSDSVRESGEMLR SRGYVPDALALPPGFKNVPPVL CLGADLKNFTCLVRGEQAVLS QHLGELSDDGVMQMQWGQRLC RMGTQVLPPFTFNIKKVQSARY
16053	46421	C	16144	1	184	
16054	46422	A	16145	85	416	
16055	46423	A	16146	96	570	

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16056	46424	A	16147	2	1690	CCCCPCCPCWGRVSGSVAGG PRQGLGLPLSLCISPGSLNKDPS YSLQVQRQVPVP/EGLCVIVSC NLSYPRDGWDESTAAYGYWFK GWTSPKTGAPVATNNQSRVE MSTRDRFQLTGDPGKGSCLVI RDAQREDEAWYFFRVERGSPL TQKPDVYIPETLEPGQPVTVICV FNWAFKKCAPSFSWTGAALSP RRTRPSTSHFVLSFTSPQDHD TDLTCHVDFSRKGVSAQRTVR LRVASLELQGNVIYLEVQKGQF LRLCAADSQPPATLSWVLQD RVLSSHPWGPRTLGLRLRGVR AGDSGRYTCRAENRLGSQQQA LDLSVQYPPENLRVMVSQLNR TVLENLNGTSLPVLEGQSLRL VCVTHSSPPARLSWTRWGQTV GPSQSDPGVLELPPIQMEHEGE FTCHAQHPLGSHVSLSLSVH/S PSTAAGPLLLGG*GSAQLLL/ SRPARPPLCAGGLGRSCWRGTA VRAPSRPPAQPGPGPTAP*AS MEGSA PASGSAVRPGTSTGPRV ALSSSCYQGSWSMGEDLA WGL PWELASLPCSLSPALSSSG
16057	46425	A	16148	3	1578	VTQLLCTSNRRALFALFPGR RFRPVATNHQSRREVEMSTRGRF QLTGDPKAGNCSLVIRDAQMQ DESQYFFRVERGSYVRYNFMN DGFFLKVTGMWGGNPNCLSH WGGTLGTAYGLSREGSQGPLQ HKNN/HPTTVSVPALTQKPDVYIP ETLEPGQPVTVICVFNWAFEEC PPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPDHNTDLTCHV DFSRRKGVSVQRTVRLRVAYAP RDLVISISRDNTPALEPQPQGNV PYLASPK/GQFLRLCAADSQPP ATLSWVLQNRVLSSSHWPGRPP LGLELPGVKAGDSGRYTCRAE NRLGSQQRALDLSVQNPPENLR VMVSQLNRVLENLNGTSLP VLEGQSLCLVCVTHRPQPSQAE LDPEGTGSEPLALRPRGSSWSW LVGSSGARRRVHLRPSAPTGAP RRTLLSPCTTPRSCWAPPAPGR LRVCTAAAPPRPARPPLCAGGL GRSCWRGTAAQGLLRGSPPAQ PGPWAQTASPEPSMEGLNSGPQ

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16058	46426	A	16149	90	1029	MLLPILLSLGGSQAMDGRF WIRVQESVMVPEGLCISVPCSF YPRQDWTGSTPAYGYWFKAVT ETTKGASIVAPNPPSREVEMST RGRFQLTGDPKAGNCSLVIRDV QMQDESQYFFRVERGSYVRYN FMNDRVLKVTALTQKPDVYI PETLEPGQPVTVICVFNWAFEE CPPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRQDHTDLTCHV DFSRKGVSARQTVRLRVAYPP ETFGISIFTVTNTPDPDENLRVM VSQANRTVLENLNGTSLPVLE GQSCLCLVCVTHSSPPARLSWTQ RGQVLS
16059	46427	A	16150	270	1001	CCCTVYRAFIRKRLKRSSDSVY RRKNPSASYDRDAESLAAYK SGEVDLHQLASTWAKAYAETT LEHARPEEPSWDEDFADVYHD LIHSPASETLLNLEHNYFVSISEL IGERDVELKKLRERQGIEMEKV MQELGKSLTDQDVNSLAAQHF ESQDLENKWSNELKQSTAIQK QEYQEWVVKLHQDLKNPNSS LSEIHKVQSPQSFRESVEAIGRIYE EQRKLEESFTIHL*AQLKTMHN
16060	46428	A	16151	60	648	LAMSLSHLYRDGEGRIDDDDD ERENFEITDWDLQNEFNPNRQR HWQTKKEKGLQRKEFFTDLV GLCFCAIRARDYSAPVNFISAG LKKGAEEEELESDGFLRFFFI LFFH*LSFDFSLQGGNFKPSQK GFAGGTGKSFMDFGSWERHTKG I*FTYMNCCKRKTLLFFC*NSSG IINPIEAKQRKGKGAVGAYG
16061	46429	A	16152	237	450	LAMSLSHLYRDGEGRIDDDDD E/REENFEITDWDLQNEFNPNR QRHWWQTKKEESTYGVWAERDS DDERPSFGG
16062	46430	A	16153	12	85	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEIWCEEDERKMARE FLAEFMSTYVMMNIHMIVEKN T*SPFCPPWARATVSGPPVAPKW SPGP
16063	46431	A	16154	49	481	
16064	46432	A	16155	20	248	
16065	46433	A	16156	493	728	VSFLSMSSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMAREF LAEFMSTYVMMVSGRAARSG WALPGSPMTSPSPF

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16066	46434	A	16157	136	306	ASSSREGLTAKFAKFTKFKIHQI *ITLTSYSIKSLEKVCADLIRGTK EKNLKVKGVP
16067	46435	A	16158	563	1216	MMFWPELQPRVCWMGLSWVN HQNGRRRRRNQKHH*QKVPLL IMASK*KLLEFLNRETKASANL SETVTKPPLPQKNTAQVGASSQ TRKPNKLAPHPAPVAFVKNTCP SRPRERTHFLRPRPEDRMVAL KPIKIVLPPVFMPPSSPQGRSR MPTQHLRYCRWVAPKALVPTCL PTHLSRKEEKPRMDTPFLPY SRPPSGEWLLIVLWFFNRSQRS
16068	46436	A	16159	1	143	
16069	46437	A	16160	40	230	KQAAQPAVATLSGPLPHCGSFV LSLFAINLVAHSLGPHCLYEL* HSPRRSTASLREGPRLHS
16070	46438	C	16161	233	319	
16071	46439	A	16162	290	472	EFLDTFCYIPKVVDDQ*DTKQ QHNVAIIPHVSSAQMTFC*RT MPTISDDPWHMAMSMRAV
16072	46440	A	16163	3	553	
16073	46441	C	16164	270	608	
16074	46442	A	16165	2598	2943	HSPRGSAAFLKSVRPRTHQFR TQEDRLSPGIQDQPGQPSNTPSL QKL*N*LGVMGRCSPSYLS*P WREDHLSPGG*GCSEP*LHHCT PAGVTKSDRVSKNK*INKNKIN NDNQ
16075	46443	A	16166	2	58	
16076	46444	A	16167	218	342	
16077	46445	A	16168	734	872	
16078	46446	A	16169	1233	1706	CLVFWLLYYPGQLPFHLLPHS LGSQQSSSEESAATPSLAEGRR EAAFRCPAGLARQAWRPHAR LPGAAPLAAPSLAPLTGRSG RWLPMCAASC*SPSPAMSVYP QRRLLGQGAEDSEGPPVSRGC RAPGPQRPLAAPGEQTAAATQ AICLIW
16079	46447	A	16170	598	1159	CRQTGKVIYDVWFFWLLYYPG LQLPFHLLPHSLGSGQSSSEESA ATPSLAEGRRREAAFRCPAGLA RQAWRPHARLPGAAPLAAPSL APLPTGRSGRWLPMCAASC*S PSPAMSVYPQRRLLGQGAEDS EGGSVSRGCRAPGPQRPLAAPG EQTAARTQASVYLLPHSPPLL SALHIIHLLPPS

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16080	46448	A	16171	834	1185	RSLFRHHRPSAAFRTPCSDCPR CSAGTMEDCWLVLGSPELR*KS LHERPFHWLPSPSRARCCLPRSE TPAGVPVPRPGPRRARRPRGTS RPPPASSRGRGALGSLPASEPLP ARAT
16081	46449	A	16172	78	478	VVKNSLIFLVNQVLNSRDFHVF FKTT*NCPAQAHAAALYQGLGP ACSQRAASHWMSSSSKRSSKSLK KSA*TAFLAAKSIKSPGAASRL GNGKARLCQVRFPKEQVISALQ GHYPHKRRWVRGNRLKLEST F
16082	46450	C	16173	1323	1656	
16083	46451	A	16174	77	231	RSCMTLMWPRSTP*FGLMERR RHMFDWLLITMLWMLPTKLGS SKLSPAA*F*SSCLIL
16084	46452	A	16175	1	255	STSKGEKPAIRAMAHFLEPHPIN FLGARARKADLSPT*YHFFKHL DNFLQKGCFHNQQDAENAFQQ FFKSQSTNFYAGSSFVTEV
16085	46453	A	16176	690	1020	SPVLQRAFKNGPGTANERTVQ WWFKKLCKGDESELEDEEHSG* PSEIYNNQLRAIFKADPLTITRE EVFPHPLYSPDLSPSYHFFQHL DNFLQKGCFHYQQDAEHAFQE
16086	46454	A	16177	1	383	MHRSCGSDAYALLGERSVSLR RCAVRHAGGIRSANADISNDKA GEKPARRKTKGSCPTLIGAGLV QSLSPIQSAADAGELGSGILPD VESLRIPVQYLANLLTAGDTKP VLRALKRMLAMRHYKRAETV DGKVDTRALEEVGLTEAQAQE MYRYLAIANYEDRFVVPSSHRE LAREAFPEKNGCGFTFGDGCH GSDTKFNLFNSSRRIDAID*PCPD *RWTGTLGLPASGLFTRFIVTY VSIRTSDDTSSMPHSTPSQA/TERS PNNA*ASLQTC

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16087	46455	A	16178	740	1977	SASASRSLHEHITVTPSTGILTCFP STTPFGLAL/GGTGLGPASGLFT RFIVTKSSIFSIVTPLVQPKPSCN GYSPPPPVPHRRERQRRVIAEK IFCQHHRAKLNRLEERQYLTVN FRAIAQRVNIGITGLQITIDANA AINRQPGASCQGRFGAVRCGG NYRIHFIDIALAVQRWPECQNPF FPAPVTEISTADERPSPLTGCLQ RLVTFGSVIFGIHNMIMRLAPIGR FGAMAFITIGKYGVGTLLVQLGQ LIICFYITCILFVVVLVLSIAKAT GFSIFKFIRYIRELLIVLGTSSSE SALRRMLDKMEKLGCRKSVVG LVIPITGYSFNLGTSIYLTMAA VFIAQATNSQMDIVHPITLLIVL LLSSKGAAGVTGSGFSVLAATL SAGGPIAGSGSGADPRYSTALC
16088	46456	A	16179	757	1037	FLDPSPPEPNVTVTPSTGILTCFPS TTPFGLALGVDSPCPD*RWGTG LGLPASGLFTRFIVTVGVTPALD TGLM*LRSCGPPRSML*HRTQQ KC
16089	46457	C	16180	1	313	
16090	46458	A	16181	178	290	LLGLASEN*HCPASEAP*TIT DTELWVTLTVEGKS
16091	46459	A	16182	1	251	
16092	46460	C	16183	129	1136	
16093	46461	C	16184	117	364	
16094	46462	A	16185	636	748	LLGLAAED*RCPIASEAPQTIT DTELWVTLTVEGKS
16095	46463	A	16186	37	444	DPQVGKLLQHCAPARIKMTVTF NNHRKPOLSKFHLQYSEDQQ QIIRETFHLVFKRDENVCKFLGT IWSLTGKLNRGQAPLFGIFHT VELHLEIRSSCQGVHF*LTCSFS CPCSGPFVNSPFYLPESGHSK
16096	46464	A	16187	179	422	LQLGPKEKQSRVLGSFFQVPSC GKMGCGSSGSRHIGFPP*PQLSG GPLDPRQSGSGISEMK*TE*GGY PKGSPQHYSRKHQGS
16097	46465	A	16188	1064	1374	KEQCLQALSSVKNREKRPSSFH PICWSAVSVSGREGDMWPLAP FPDSENVAGAGALLRLAALPG LSWALRPPPPAPVRSWATSGW* GGQGREPGRIIPRW

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16098	46466	A	16189	44	515	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADEGFWDSCVCTFR NSAEAFKCSICDVRKGTSTRKP RINSQLVAQQVAQQYATPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSDI LKDPPSEANSIQSANATTKTSE TNHTSR
16099	46467	A	16190	382	795	DSGRSWKRLSPPRPMCDTWA LGSYPRLCFVSPFSCSLPLPSL FPHSPLGRPKRQAKPAADEGF WDSCVCTFRNSAEAFKCSICDV RKGSTSTRYLKICVTWVVVI*Q VFIEHTAICALGVQWYKDRPGP CSYGA
16100	46468	A	16191	2	343	
16101	46469	A	16192	472	625	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNHRYNSENASL GSQWKFP
16102	46470	A	16193	343	693	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNHRYNSENASL GSTQIPLKAFNPCHTSFTLCKH MVIQAHQEKLQILYLGLDL ET*HFQAFWQALDENMTLLESI TGFEFG
16103	46471	A	16194	340	534	TAIMNDMVTI*TRKFMNTQRLQ RKQMVIDVLHPGKATVPYLILI EQLRFARHCAWYGGDSDETSH
16104	46472	A	16195	80	552	PIPHLEKFHAPTRRTFRGNQMIV IDVLSPPGKADQCP*AQEIPGKT *PKMYQDPHPDVIVFVWIPELH FGSRGKTKLAFGNDFMSTLGF1 AKEKWNPKHRTLQGHGPGME/ ERKKTSGKPTERERQGTGLEG KFQGGGLAKGPPFGAWAKRRNE VSSS
16105	46473	A	16196	248	474	YPETPESPTQLSSGQPHREQPPE MPESPTQSSGQSCQEPPETPE LPM*PCLAQPSQKHMIGK*QNN KHHENKM
16106	46474	A	16197	223	669	PRPSLPACSPWRIVDDCGSLKS WKRVCQWLQCPNALPCLGSL PLRCEFSGFPRN*LGLGSTTGSF AVWGGFLFSTIDCGLVRRPGPSP FHPVLPALTSVSLPPTPPGGPLA MVGSAAMGGWSGEWEILHLA SSTHPYPSLSPAPPFLE

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16107	46475	A	16202	188	484	HFGRVEVGRSQGEFQTRLAN KAKHHLYSFMNESQISPIGC*P M/PPKLIRKVHREKNCAGRNL T\RQRSFKTGPPPPARPSSTLP PPPLPRLPRRP
16108	46476	A	16203	36	409	
16109	46477	A	16204	651	893	NTSVKNNFSFMNESQISPIGC*P MAPKLIRKVHREKNCAGRNL T\RAEKRLQTPGLPVPPARPS SSPPPTPLPAATPGGR
16110	46478	B	16205	13	441	
16111	46479	A	16206	3	205	NSSNSFSIQFCSFAGEELCSF GGEEAFWFLEFSAFLRCFFLI FRDLSTFGL*CAPLEEKRHSG FWN\FQPFCAAFSSSGIYLP LVFDAGDLQMGFLCGCPFC
16112	46480	A	16207	23	841	EKAKEFRRAEEKKEVPVAPET LKKRRNF AELKIKRLRKKFAQ KMLRKARRKLIYEKAKH\YHK EYRQMYRTEIRMA\RMARKA\ GNFYVPA\EPKLAFVIRIQRVS MGVSPKGSERCCCKLLRPFVKIF NGNLL*KLNGFRLTML\RIV\E PYIGMGGTPIKSVNELIYKR\G YGKIH\RKRIA\LTDYALIASL GKYGIVCMEELNHEIYTVGKR FEKANFLWPFKLSSP\QGG\MKK KTHFVEGGDAGNREDQINRL HRRNELTRLTWIFF
16113	46481	A	16208	1137	1200	PPSAPAPG*LRPPALSSGSP*PPS APAPG*HAPPPSAGTPPP

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16114	46482	A	16209	1	1480	MNECRGVEITVCSSEDWIQRHL PGAVVPLKGEENVGVATEDHY QEDSFGFLRGTKPLKLEKSR PGAVTHTSPSDGLTQYVPDSL.T AMPAAA VVIWVIRPGCGVQQQ IGFLRHSNIDDIRPTIIRAVAPV KLHGIRIKMASFTSATRLTDEQ VITAPADSGIVIPFSDNWWAG GKTHLTHKDSHKLKVKGWKK AFHANGHQKQAGVAILTSDKT NFKATAVKKDKEGHYIMVKGL DQENITILNIYAPNTGAPKFM KQLLIDVRNEIDSNTHIAGDFNT PLTALDRSSIQVKNKETMDLNY TLEQMDLKD IYRTLHPTTAEYT IYSTVHGTFSKIDYMTGHKTSL NKFKKSEIHSSSLSDHSGIKLEID SKRNNHQNANTWKLNNLFLNN RWVNNIEIKMEIQLFELNNND TTYQNLWDTAKVVLRGKFIAL NAYIKKTERAKKTIYHTSGI*K QEQT KPKPSRRKEIKIRAELEI TTKKTIQKK
16115	46483	A	16210	32	398	ASERLGGPGSPG*/PVNPRTDGS GAAWLSQRAQCTQSDPRV*EV PEHLSPSTPSQEYRGLPAL\PHTS RPSHCLPACPLPSRTQPVWPVK PGPTACRGFLQHSPTPGSP*S FQGSWWDTDL
16116	46484	A	16211	2	681	AEPWDEGGDGVPCRVPSGSGV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQGGIP GPRLVLQFVQQA GVC GPGGNA VYSTPRDSASLVSGRTSMLFLR KFGKTWRKGLHQRGPPASPV LGRECNWG*VIGRIHPAQSS/SGP ACAKDAAEALGAAMPGLVSGPL GAALQPRGAGVQLGAATGPGS CSK/RGSPKADAR/PRHSQEPGQ VPPHAPQGPGLS

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16117	46485	A	16212	102	1005	VQWSARPDATPLSTEPSLADYP EAQSHIPRRGPRRPEKQGRGGK PPRALGRERAGGSRGPPASPD PLSRPCSQAPPPGASAGA*DAP ACRREAGSDGVPCRVPSGVS* V*TLVLDSVQLCGTEAPQHVP DGPPGGKLCHEGSLHLRQGGIP GPRLVLQFVQAGVCGPGGTD GSGAAWLSQRAQCTQSDPRV* EVPEHLQPVDTHKELYQ*PGG RDGPGWEEPPQCGMGVSEAHG GAGGPGEAGKRLQRKFGKT WRKGLHQRGPPASPVLRGRPR PE*VLLRCD*EG*PPSAGQLL
16118	46486	A	16213	378	494	GTACLQIPOTQGV*QRGFLAEY IQWQLMRMSGSPVRTG
16119	46487	A	16214	18	894	SVGSLCCLQETPGLRAFGVPWR SAQRRWPRRASAALLSLVLPGR AHSRPTLAPGLEAQPPPPGG SALAQRSRTAPAGTSAACLWP VSEQGAAPMCQVTRPPGSQAP CSQPSAAHAKHLTTGSSSPA SALPRA*TGSRWETKSSERVSFF SA*GTACLQIPQTLRRRTG* VGRRLPGSGGDFGCSIFS* PV TYSLSVSATSSNEATQLGTT*S NSIIFECASQASTAVRCRLFT*T DAPWSRSSSTTKTCSITASC S VLPALLEALMEAPCPCLACSSA
16120	46488	A	16215	340	582	
16121	46489	B	16216	93	711	
16122	46490	A	16217	1378	2081	LSRKKPNWPSMPWYQFSLIWL MSVKTSPSWKPSWFWGWSK YSTLQLGWSRGGMLLGVQM DLLEDWKGDAAIIGTVVQKG PPLDCSGSPRSKAPRTWAYTPA WGVRKLPASCA*ASLPA RPGSA WPASGRSAAPP/AARS* LICSM SVSRRLCMLVSA TSLESSNFSSA WRSSSGILPCRFSMSRESFTSA RCFMDSPASSASLKLDSLPSF WWIRIRHSRSPSDCG
16123	46491	A	16218	191	288	
16124	46492	A	16219	67	209	
16125	46493	A	16220	96	341	
16126	46494	B	16221	1	1185	

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16127	46495	A	16222	192	703	AMPSCTRAGLAFVCHVRRRCGLSCRGVIPASSQCLFPAPMGTTATLRMENV DVKEEWQD*DLPRPLPEETGVVELLGSPVEDTSTSN TLNFNGAHRKRLVAP EINISL DHSEGLLFDDFLDTLDDI, DIN VDDIETPDETDSLEFLGNGNEL EWEDDTPVATAKNMP
16128	46496	A	16223	8084	8251	TAGDERHGPSVRMFRIKGRRLGWMGPLGRGKR*VTRGMWPG KGPAYPGSSASSF
16129	46497	A	16224	645	1317	WGASRLREPPSPRTLHSPRPGP ASAPPLRPLPQNRTPSPSA STT APPQPSEASRLPA*KAKPKPHPP SAPRRGGSPPRHSAQPA CGRRR PRSVGGAAPYAAERRNSAPQGP PQLRLRTAEGGKRSPNPRQRSH PRQRGDSL*LGWVSRDRRAGR DGRDGSAGGTRSPSPRYASPE PLGPAAPASPA GASWTGGPGRR ADDSWRASVFQAQSSACFPRA RVL
16130	46498	B	16225	72	378	
16131	46499	A	16226	151	372	GGQHWAKAWRQTLGPMPER TGACGCGSL*PFTTTPPAICVD GTFHKYVFTPDGNCNREADFV YLDICDDDDF
16132	46500	A	16227	182	1083	HPGPCPDHEQVSGMGLVEDPV SPGLPLTLNLGPDNPPTCPA VLI WDDAREGKD*EG*SSLGIPPP HGHPVLCDTHRIVIVLKNRQLC PF*DAASSAAHPTPHLHTLGL CELPCGLLAPSLHTTPTSDSLL PQDLASTKPGTSSAPFTINAHQS DIACVSLNPGQTVVASASQKGT LIRRVCMVGW*PHTT*HVGITA DLSSINFSDSSFLFPTLPCPCP PAHLPLYGLASACRLARVGK VGP MIGQYVDSQWSLASFTEM PERTGACGCGSL*PFTTTPPAI CVDGTFHKYVF
16133	46501	A	16228	202	517	GVHCHGFSAGQAAGQEPTSVH ETLLPHQLQDQSALRGGVQNR QRHQA AEGPGERAGAAVS VGL GEPQCH*VGAGRAARGPPILEV PAGGADAAAECPAGPHGCGG

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16134	46502	A	16229	141	633	WENARPEPSQGDRLRAASVVSPPR LPPrKGQGGGLGYFGRGAGHAH GTAGQGASESETLLPHQLQDQC ALRGGVQNRQRHQA AEGPGER AGAAVSVGLGEPQCH*VGAGR AARGPPIL.EVPAGGGDAAAECF AGPHGQNRGQQSGISQLRHE REFLLRPFPQAPQL
16135	46503	A	16230	65	466	VVFAEAAEASLMTSGVGGGAA QSPRRRGWWPLGEMPYANQ PTVRITELTDENVKFIIENTDLA* GYRGKRLAALGRGRPKPGPRG RGRGCSGWWGGDVLPELPPCT RALALGACGAGPACRGCSAFTP LGF
16136	46504	A	16231	42	491	SGGKEAQGGSGTDQTVVVLNS PTYYSNDIPYTFHQDNNFLYL CGFQEPDSILVLQSLPGKQLPSH KAILFVPRRDPSELWDGPRSG TDGAIALTGVEAYTLEEFQHL LPKMKGNKWEQKSHYKPDWD *NLSCLFRQVLNFVIVAPP
16137	46505	A	16232	531	976	NQSVIRVNVNDSLIPVIAAELG VRKPSEKGMQKKTKDLGFR AGKESKTEWRK*GLQDMASQ MFASPLK*PVTAAFHDSMPSS LLQIFMEQLFLEARLQLDSKSE ARRNQCDMLLRNQLCSTCQ EMKMVQPRTMKIPDDPKAS
16138	46506	A	16233	2	419	SFLLSSSYTRTKSILRWPSLKKR ESGFPLNSSNSGVRKSC*LSSDP KSGTIVCPRFSTISPSSSSSSI CSKTFLPSFSLPQKAAPNLAR SWGLPGSRTARLSQGPDRGPRG VCLRGSGAAEPSQRRGKPSRDE IV
16139	46507	A	16234	27	792	INSIRILSTCKMGHPRFAPQAPG PLRTSEKGPVLPWAGNSSSDH SSEPSVGFYFNEDSDGSHPLVQ MRACSPDPAQGARPSAEAPGP *HSASRGSDPKVAEWRPLPHAE ASPQLPGFSGAASPAPKHSCSF SCLPQKAAPNLARSWGLPGSRT ARLSQGPDRGPRGVCLRGSGA AEPSQRRGKPSRGTHRPEPRAG GRLSPAERSPETEHAQCGRRG LRND*TSPLVRGAQKEVGRRD CRGSSAILRAGEL

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16140	46508	A	16235	343	969	YDKTRLFNVTPLPPPHKKIKKII QDIKGEILRAFPLRTGTGKHCPL SPLLFNILLEVLARAIQKEIKS IQIGKEEVKLSL.FADDIIIL KYSSRKLQELIKEFSKVSRYEIN VHKSVALLYTNSQAENQIKKS TPFTIAAKNKIKYLGIVLT.KDAK DGYKENYKTLMEIIDDKNKQ KYIP*SWKGRINIVKTTILSTAIY
16141	46509	A	16236	15	403	ICESRRGRVCSALVRRYVGEFG GKAGSICMPQAPDKSSRWTLI RPPRFPPSPCSPGKEAPGGSEL /SPLPHAWPSDPVSPGLGDRVTA NPAEIR*EPGPQSAAPGFREQRR RGQMG*IWYLTPTPPGGQ
16142	46510	A	16237	19	454	KGKSLCTSPKVCRCRGLRKS PETKVTHICMPQAPDKTSRWTL LIRPPRFPPSPCSPGKEAPGG EL/SPLPHAWPSDPVSPGLGDRVT ANPAEIR*EPGPQSAAPGFREQRR RGQMG*IWYLTPTPPGGQRRPS SAASPRGFPLV
16143	46511	A	16238	276	898	MKGTA PWRCGSRGRVCSALV PKVCRGLRLKSRKPETKVTHIC MPQAPDKTSRWTLIRPPRFPPS SILQSWEGGTGWLRTPLPHAW WPSDPVSPGLGDRVTANPAEIRIL GEDPESPEETLNLIRTPIPPKPR GNAKSHP/GGHRSHR*EPGPQS AAPGFREQRRRGQMG*IWYLT PTPPGGQRPSSAASPRGFPTTN SSRLPAEPE
16144	46512	B	16239	177	284	
16145	46513	A	16240	253	416	CCPVLPGPWAAGHPGD*PDGP G**AQPHKECRGGFAPLQVTLG PK.QPSGKRVNK
16146	46514	A	16241	1401	2246	NIYLLQVDFDCWGLQGLGVSN PSYSIRRCYTAGQSPRGLPDGPR F*G*EESTGEQADCP*GSHRRSR SAAGAADGGLDPGAHTITCGC LSHRGRLVPAQKSSAAL*APSG AKPAPTVAPVHDPARQG*GGQ ARGQGARGPHSHREGLCEC*A VTTL*EPHLRNSSAPA*ERGPGQ IRVPEGQSGDQESSAEHHGGD PGGGKPRCGHQEPLGAGWPS PAGVEPLLGLQKSGDAP**E PQRGCVDEAQSSPGAVPEAK AIAVQPPADPVFAAVARCD

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16147	46515	A	16242	30	461	IPAETTC/EPAKIHFCFTDGSN GKASYSGSKGVFQTPYISAQK VELVAVIEVLTAFDMPINVISDS SYMVHSTQLIENAQLRFHTDEQ LIHTKKGGNRDYGTAQTQLNL ALLTFHFSSLPKGQMLPAAEQH LQKPAAKTQAE
16148	46516	A	16243	1	573	
16149	46517	A	16244	1	1689	
16150	46518	A	16245	1	1416	
16151	46519	A	16246	27	779	KNHFNWKDKFPPLRISFLMVA TVKPPPEPTPLKRLTEKPIWIEKW PLSK*KLEALEKLVTEQLENGHI APTFSPWNSPVFIKKKSGKWR MLTDLIAINSVIQPMGALQPPGL PSPAIIPKNWPLIVTDLKDCFFTI TLAQKQCEWFTFIIPAVNNLQP AKHFCFTDGSNGKASYSGSK VKVFQTPYTSALTAELVAVIEV LTAFNMSINMISDSSYVVHSTQ LVENALQFQTDNDFIYPVA NSS
16152	46520	A	16247	2	394	
16153	46521	A	16248	63	1123	ELDVMGLPEERVSRSGSRGQE EAGAGGRARSWSPPPEVRLVSL LRLNMSQKINDIWASISVAEFW GDIAKEFYWKTPCPGPFRLRYNF DVTGKGIFIEWMKGATL*LCLF LVWGRSYTPNHWFLLVCLREG NEPGGQLDGREQVAARRVHGS YSVLLPAGIQKGDRAVAILSNPFL HSLNPWGFLLSRLSSLP*GPM DIVPTRQHGAY*GLECLLLPKD MDMGGSCQVPFEPTRLPL*AFL FSRGFPVRCCIVVKHLALTLSH SLYTWTLQGGGTGVSCPHLELF TVLPSPSLQISWNQIDLWWHE LMQEAGDECEPLPSHLVVSRG GHKLTLCSPFPQGVVHTVGGY
16154	46522	A	16249	35	219	ALGVHFLVGPVGDGSRVDCG QQUPTSSACTTSGLSISRRCSGI WRMNQKKQVRGSPSKE

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16155	46523	A	16250	1934	3213	WPAPPSQVPSLDYGLALWFDA YVSVHGTQETSQCSPESSLTPPR LCGLRILQPYAERIPV VATAGIT INFTLRGYAWPNGALPASTVPC GFAACPGFELCSVNGRQAPAGS SGFLPPVPSLCPHTVCRATFQCK EDSTCISLGRFPWGSETHLLCPA PIPSVPGVPCGTFTFQCEDRSCV KSLSASPLLLLCPPHLPPSPD CGLQGPSSRIVGGA VSSEGEWP WQASLQVRGRHILGRGSFLPPH LTPPHPTPPHPSMASTVLWTVF LGKVVQNSRWPGEVSFKVSRL LLHPYHEEDSHDYDVALQLD HPVVRSAAVRPVCLPARGRIEN RGSRLLRSHFCP*PRTGPI SNAL QKV DVQLIPQDL CSEVYRSSPG KGGALTLLQSFLSPFGDSSGG PLVCKALSGRWFLAGLVSWGL
16156	46524	A	16251	511	853	CCWNMALIQTFQMSMEIPLCTT LS*TAHLASANGNSGVVKLLL DRRCQLNVLNDNKKRTALT KAV QCQEDECALMLLEHGTDPNIPD EYGNTTLHYAIYNEDKLMAKA LLLYGADIESKNKVEEEMKKH ESNNVGLLENLSNGVTAGNGD DGLIPQRKSRTPENQQFPDNESE EYHSHTFELPSRIYP
16157	46525	A	16252	1050	1350	CDPQMCCCCRPEAATPG*REAA SAGPWD SAPPSPARTSLPSAHSS DYPLPRSRSSSAASRSPPRPL STIARRLNPRRSGRSLPSGQPAG PSDPRGFCL

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16158	46526	A	16253	2	3486	SSQSGAAAGAFCLGLCVDELTA SCDLEADSEDRTTEHLATLQLRP DFSGSRCPAPQKHLQTHRPHSK PWPIY*PT*RSYLAIHPHSW*AP PPSRRRAPPFAHPHTQACPSTCY CHTLASRRGPSNGRYHRPGYPH PTAVQRDPPAGPRGCQSPC*HQ PPACRRPCGRHYR*HGQHDPPP WQ*HC*SRSPCHPPSQORDAVTW PFIHIPAED/SHTQPKQSP/PAFRP HTKTCPTCYCHTFAGRRGPSD GRHHHLGYHHPSAVQWDPAC *RGCWPRCQREPQTCPCGGR/P PPGTSLA*PPHPRVPLKEKLCQY DEFSEGLRHSALNRHQVRPTG EKSVKSLERGRGVQRNTHIRNH PRAPVGDMPIYRCDVCGKGFRY KSVLLIHQGVHTGRRPYKCEEC GKAfGRSSNLLVHQVRHTGEK PYKCSECGKGFSSYSSVLQVHQ LHTGEKPYTCSECGKGCAKSA LHKHQHIHPGEKPYSCGECGKG FSCSSHLSSHQKTHTGERPYQC DKCGKGFHSNSYLQAHQVRVH MGQHLKYCNVCGKSFSSYSSGL LMHQRLHTGEKPYKCECGKSF GRSSDLHIHQVRHTGEKPYKCS ECGKGFRNSDLHSHQVRVHTG ERPYYCDVCGKGFYSSDLLIH QRVHTGEKPYKCAECGKGFSY SSGLLIHQVRHTGEKPYRCQEC GKGFRCTSSLHKHQVRVHTGKK
16159	46527	A	16254	333	695	ISVFRSPGQSTSQHDAATWPF HISGEGPTPSRRKAPFAHPHTQ ACPSTCYCHTLASRRGPCNGRY HRPVYPHTAMQORDPPAGPRG CQSPCWHYTPACRHPCGRHYR *HGQHDPPPWQ*HC*FGSPGQS TSQHDAVTWPFLLHIGERPTAS RRKAPFAHPHTQACPSACYCH TLASRRGPSNGRYHRPGYPHPT AVQRDPPAGPRGCQSPC*HEPP ACRHPCGRHYR*HGQHDPPPWW Q
16160	46528	A	16255	9	437	SCNMSLCRCNCVIRAAFKEGTP ALLVYSAILSFPTVSLAKSCSISI AIVSNILSWLDPFKRGVVSLSR LPSRVLL*L*LVHSLLKETSFRS SSFSSCRACFLRSSQ/STAGPCR HLCRPTSAGIGEQRRCRPESH EIVDRGI

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16161	46529	A	16256	619	1138	SCNMSLCRCNCVIRAAFKEGTTP ALLVYSAILSFTPVSV*DPEAFSP HLPNSNCWSLPPSLSSNVSRDRG AEAMQAGKSPWCVFPP*EPGPT GCEPPRTLPPAPFKLCSL
16162	46530	A	16257	408	801	SQRRGSVCRLVHGRHGQPGKG TSPHSSLWDWQPGPQPSGPPWP EGGASPGTIPSLIPRS*SASCCFP WHPGCSC*GAPASQC*VALSPQ PWFPLPCLSVPSVPGAATGPK HVRTPPGSDSAPPQLQPQSRI
16163	46531	A	16258	1	199	
16164	46532	A	16259	665	1006	IGSPDGRNVIRERTVTNETQTEG EREKEEERESHTGDVLKVGDL GPQGSSEFQLLSNLTVPNFIDI QFPK*VSAAC*DGPSHTSSYIS SSLFIIRASQSSPGDFSISVRY
16165	46533	A	16260	247	404	
16166	46534	B	16261	258	934	
16167	46535	A	16262	519	924	NRTIQADLLYPDDAGNPLPARN TRQASASADPPGARAGERRRG AAGPSPGR*QAPGPPPPGEGA GARPG*EGDAAGGATRFVGED ARLLRAGCHRRGRGEAEPLQ ALRHPGLQGLL*EGAPHGELAL VAFHL
16168	46536	A	16263	121	214	
16169	46537	A	16264	139	272	
16170	46538	B	16265	1	1962	
16171	46539	A	16266	2373	2554	SATPWLPPTGLAAPTGLAAPGT RSPPGQT*PERSPAASPKRPERP ALDFQPFRQPPPPPP
16172	46540	A	16267	919	1653	WNCFCVSADTMAQIMAEQVEVE NLSGLSTNPEKDIFVVRENGTT RRPLQPPPRGRAS*GGAGRLCS QLITEQADIALTRGAEVKGRCG WRPLGLRTQTLRGLKRTSPAQ QESHNSKGPPEATCQLSGTLG* EQ*GF*LLLWALAVAGKHTAN SHHLSALVTPAGKSYECQAQQ TISLASSDPQKTVFCRTYDSGCF DQSSLLFFFPAAEHKCPVDEREQ LEETLPLILGLLGLVIMVTLAIY
16173	46541	A	16268	2	321	PAWPPWPPTGFCPCQQDPSNT FVVPAAHTV*CSHPCSYYKGIR QMVGLPQLFHPDCPVPTPQAHT DSLNTLGLVGGPPVCSDATLPQ IINALEEDPAAQKMQALAF
16174	46542	A	16269	120	327	
16175	46543	A	16270	540	791	

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16176	46544	A	16271	1688	1945	DRVSLLPRLRQENRLNPGGRGC SELRSHHCTPAWATE*GSVSKK KKKKKNQKKNQDFISLALPPS PHCPPLSQSLLLQPSSSAN
16177	46545	A	16272	3	343	DIHHVRKSMEVNFLSYVVLTV AALPMLKQSNISIVVSSLAET AMKAVSGIVHMQAAPKEECAL EIIKGGALRQEEVYYDSSLWTT LILIRNPCRKILEFLYSTSYNMD RFINK
16178	46546	B	16273	48	407	
16179	46547	A	16274	35	646	DLTGFIKFSLLGLFMAYYYYS ANEFRPGKYPCVSFWRNRFK KHRGA*VAYHLAKMGAVVV TARSKETLQKVRVLCQICVPS HAQMCSYI*DMTFAEQFVAQA GKLMGEAVSLTSSSELCPWGH QELLDIHHVRKSMEVNFLSYVV LTVAALPMLKQSNISIVVSSL AGKWRDICGR*KKKKNARD AVQTPGSKSAI
16180	46548	A	16275	221	393	LLYPANCVYMRCQMLHFQGI QRPIIL/HVSSGGAIHLQTGVET EEMRSAIAPDPIPLT

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16181	46549	A	16276	2025	4146	SDEWIIAGSVSGDYNSAAVS KNDILLGIEHISVFSETNHSSEEA FIKTAKSQLVEIEPATQNPKTSF SYERLQALQETCKENKGVPKQ GDTFLSFSAACTDVSSVTPEK EFEETSATGSSMQSGSELLKE REILTAGKQPSSDEFSASLAGS GKSVAKTGPESNQCLPHHEEQ AYAQTQSSLFYSPSSPMSSDDE SEIEDEDLKVELQRLRFRHIQEV VNLQTQONKELQELYERLRSIK DSKTQSTEIPLPASPRRPRSEKS KLRSRPQSLTHVDNGIVVIDPLC VESNAASCQSPASKKGMFTD DLHKLVDWTKAEAVGNSLIK SLNQLKQSQHKLETENWNKVL QLESVYHREDEATWLPQLRAQI VAYPACAAAIAASAHRRSMGVQ GFQEFLEKRCPGA VVPVDLLKL ARTVSRQQQQHLHRQLPPTA ALAPGAPRAARGSVPLQPLPP AALGAYSGGAGPIRHHHPAHH FHHHGQAQPLHPLPPPPPPQ LPGARVLVDAGSALPLRYGGY QTDWVCGGWNAMLGYSAL CQACAYPGGDGLEVVMFPGG LGKDRLEAWGRRQQAERQTAQ LIVGHVGNKGTTPPRAWFLPPA CLSHCVRLALIRFRF*VFQSLD HHLEVVAFFRENGFHGLLAHD SEYALYNIPSYSSHALKLSWN GKNLTNTQFLMQEVAKQLGLK
16182	46550	A	16277	1	542	MRAPPKSGQLQHCPRSRGALRS GDLPWEINPLSSCSLLHEKDPP MTSGPQTNPKEHLTNFKSGV RP/LQGRLPWSFTLSGKSRFSGE GASTPTPYIS/GAPIPYFRTPSY LCAPIPYVRTPSYLCALTPFPL FWRHIRTSKRLN/LQQPGIPPEPP PPG/CLLQVPEI*PPQGMPAAQ
16183	46551	A	16278	3	351	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFPHPNLIS LRPNLCPHPDL/GISVP*PLSRF SGGT*ELPNA*TAAA/AAF/LPEP PPPG/CLLQVPEI*PPQGMPAA QDSS
16184	46552	A	16279	1	513	
16185	46553	A	16280	774	1007	ARSVTSSSELGSGWCLQASRHT HVPWCQL*KLPVVHLVQPQPC RGAPGAALPAGSLEMPGTTEP ERGCHSPGLGIS

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16186	46554	A	16281	507	520	LLGLAAED*CLIASEAP*TS LFGGLFTRTHMKFGAVTQIRGP PLGDKSPVLLFALERQRRHVL SMDPKLRCSWRTGKAAPWCL IIAEMPDISPTFQRCQTQGRLP WSFTLSSKSRSFSGEGARACYKC QKSDHQAKECPQGPPIPKPCPIC AGPHWKSDCSTHLAATPRAPG TLAQGLTDSFLA
16187	46555	A	16282	269	607	RARSEGAGLWSVVAPSAVSVF VSDPRCAPFHRSPCCSPVDRV CRCLRRVALAPALVLCVSGSH SQSPWNGLKLSDRLLGLAAE D*RCPIASEAP*TTTDAELTIPGL
16188	46556	C	16283	1	1752	
16189	46557	B	16284	146	372	
16190	46558	A	16285	336	753	ARTPLAAASRSGSGTRGGA VAGDDLRGPAEPGPAEPGARRR RGKGTTPSSRRPTQRRPSAAMH GHRCPQARRSREHPNTYFAGR RPPELRRGRSGVPPRP*RRPGE APRAPRPRAEL*ARLPRPSVRP APARRV
16191	46559	A	16286	1	768	FDELREEGFRQSVITNFSELKDD V*THRKEAKNLEKKLDEWLTR INSVEETLNDPMELKTMAQELR DACTT*FREKRVKRNEQSLQEI WDYVKRPNLRLIGVPESDGEN GTKLENTLLDMIENFPKLARQ ANIQIEIQIPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAREK GWVTHKGKPIRLTADLSAETLQ ARREWGPFIINLKEKNFQPRISY PAKLSFISEGEIKYLTDKQMLR DFVTRPALKE
16192	46560	A	16287	345	894	EQRHINIPESLGH*STSAGDTA DRVWSGPPANSRPAEAGPDC* KEN*QARTSNQNPICTPSSSK TKEAKNLEKRLDEWLTRINSIE NTLKDLMEKLTARELRDADR SFSSQFDQVEERVSVIEDQMNE MKKEEFREKRVKRNEQSLQEI WDSVKRPNLHLIGVPESDGENG IKLENTL
16193	46561	A	16288	1	1206	

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16194	46562	A	16289	1	882	MAPVSASEDFWQCPETSLISQL ESAPGIQLMEARDADKSLIMHE IAPTSNRELPHVKISIAKPCSMML MISWFFVNTGQSFKQDQAAIF AVLQPLLVIHRQTGSGVDLQQT PTDLQLRDLTVRRKNNKQKGI ASTSRKRTSTPKPHLQDHSSSPA MEQSWMQKDFDKLAEVGFRR SVITNFSELKEDVQTHHEAKN LEKRLDEWLTRINSVENTLNDL MELKTMARELHDACTSFSSRFQ DQVEERVSIEDKISEIKQEEKF REKRVKRNESLQTIWDYVVR PNLHLIGVS
16195	46563	A	16290	1	1008	MVRFGEDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIARARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITWPPFEYMLATIANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIALLGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGGCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVTRHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACTSF SSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QSLQ*I WDYVERPNLRL
16196	46564	B	16291	1	1257	
16197	46565	A	16292	3	467	KTPFVGQYHQRPVKDKTTKMG RNQSRKAENSKNQSTSSPPKDP GSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMEKTMARELRDARTSFNS *FNQVEKRISVIEDQIDEIK*EDK
16198	46566	C	16293	115	498	

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16199	46567	A	16294	2	1455	TERDSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQASASSPKDCSSPAME QSWMENNFDLTIQFRRSVIT NFSELKEDVQTHCKEAKNLEK K\LDLWLTNRINSIEKNLNDLMEL KTMAQELRDACTSFSSQFDQVE ERVSVIEDQMNEMKQEEKFRE K\RVKRNEQSLQEIWDCVKRPN LHLIGIPESDGENGTCLDNTLQ DII*ENFPHLAR*ANIQIQEIQEIQ RTPQRYSPRRATPRHIIVRFTKY DMKEKMLRAVREKGFKPTKIR RDKEGHYIMVKGSIQEEELTIL NIYAPNTGGPRFIQVLSDLQR DLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQELNSALHQVDLI DIYRTLQPKSTEYTFSSAPHRTY SKIDHVVGSKTLLSKCKRPETT TNCLSNRSAIKLELRICKLTQNR SAAWKLNNLLNDYVWHNEM KAEIKMFFETRTKIQHARISGIL
16200	46568	A	16295	395	656	FQLQRPASCSSPIQHRKHIPRKP A\SQSSLPHTGKSARQPEQPNR ENCLLRILIRVASEATRRWTRPS EFSSRSNPRAHHPRRALR
16201	46569	A	16296	671	1126	RRKVSELEHRRPVVKCPRRPPE VRKPESARVVSFPRGGARRSRP GATRSPQPRVPAAASASFGFGG LGRGGRGERARRGRGPKLEGF ESSAVLA*RNFPSPRRRRPGRG GVEIARLGGTGSSPRCPKPDPT ASLSELFIPSDIPRRRN
16202	46570	A	16297	2571	2716	THGMLEKRCCLQENMPIPGKD FMTKTLKAIATKVKIGK*DLIKS FCT
16203	46571	B	16298	54	576	
16204	46572	A	16299	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIGNDVESR HKICPKPS*LVGSVELEADNVL PQKFPAAKTIFALYF
16205	46573	A	16300	395	830	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMK*ATVPGPSLPLKK *TFCSFGLGFKVTLPPFMRSVSLE FGNLYQQRKILM*L*STVEMSLI LFICDLHIVKIMPKPAEEENGL KEVPEASGPQNDGKQLCPPGNP STLEKINKTS
16206	46574	B	16301	54	576	

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16207	46575	A	16302	475	719	VTWIRNNACFTLNWIFYHERS HIWILKSTLQCGQIIIGNDVSR HK/CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16208	46576	A	16303	393	822	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMKSATVPGPSLPLKK *TFCSLGFKVTLPPFMRNSLSLE FGNLYQQRKILMYF*STVEMSL ILFICDLHIVKIMPKPAEEENG LKEVPEASGPQNDGKQLCPPGN PSTLEKINK
16209	46577	A	16304	1	447	
16210	46578	A	16305	75	565	LLFSGFSL LHGYLPHWYLCHLP RSRSLGLRDKRWVKGDTDFL SPSHPEYLLKEENDGHLCSLSFR MGNQFSSPLPAYTPLECILNH W DGFYP*NLEEKHLIALRTKGWP NYDLQEGLSWPQEGTHFNNT WQLELFCRHEDRWSEATYMQ AFYILQGNRDLG
16211	46579	A	16306	1	1620	
16212	46580	A	16307	128	223	
16213	46581	A	16308	1	1578	
16214	46582	B	16309	592	883	
16215	46583	A	16310	1	344	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIHRTIILKRTN PAQTITNLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTHPVGNLGTG NPEPGGCGILIVCCYNWACL WDSVVAAPREPYPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKNV EHTPEYILPLITHSQPLNRGAFF CPGVRFVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGFVFV WQLAQQLNLHGDVCDNDGDV EVRLAYRVLVGQPPHYPRGRP
16216	46584	A	16311	84	237	DGIVLSTYYHFYWHHF*ILEGP LPANTGDCLPLQVQPDREQVR WALFKK

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16217	46585	A	16312	2887	3537	HLDRSGLFNQIVIPVCRKLKGE GNDEKQCVTTTSRSNAAFFLLHF FLLATFTWMGLEAIHMYIALVK VFNTYIRRYILKFCIIIGWGKPLK IFLVLFPHENCQVYGKESYGK EKGDEL*VIKTCDE*ISFVS*SG VMFFLNIAMFIVVMVQICGRNG KRSNRTLREEVLRNLRNVVSLT FLLGMTWGFFAFWGPLNIPF MYLFSIFNSLQGGKINCT
16218	46586	A	16313	302	547	QIGLWTPNFRTFCVWTGGL VLCF*GFCFQEAAGARDTSSFA MGVSPWFEFRHG*LWPEMRSM E QILELLVLEEFLTITGQ
16219	46587	A	16314	1	1174	WEEKENKEYLKSFEILMLMGK QNIPLDGHEADEIPEGLFTPDNF QALLECRINSGEVLRKRKFETT AVNTLFCSTQQRQMLEICESC IREETLREVRDSEFFSIITDDVV DIAGEEHLPLVLRVFDSEHNLR EEFIGFLPYEADAEILAVKFHTM ITEKWGLNMEYCRGQAYIVSS GFSSKMKVVASRLLEKYPQAIY TLCSSCALNMWLAKSVPMGV SVALGTIEEVCSFFHRSPQLLE LDNVISVLFQNSKERGKELKEIC HSQWTRGRDAFEILVELLQALV LCLDGINSNTNIRWNNYIAGRA FVLCSAVSDFDHFVITIVLKNV LSFTRAFGKNLQGGTSDVFFAA GSLTAVLHSLNEVMENIEVYHE FWFEATNLAHQT
16220	46588	A	16315	717	902	GALQSWPCYLPRQCAGATVQNF CGVPTCMRKSTWSNLVVRFP QDPSRCAN**LDCCCTACTQ
16221	46589	A	16316	1	374	EHSEPPIGVQVVDYLLRQEKVT DRMDHSHKVEITVLSFVDDIIS GAKSPCAMPSPQDPK/QAQEIA DKIYNLFNGYTSKEQQTAYN TL.LDLGSPTLHRVLYHYNQHY ESFGEFTWRCEDELGPR
16222	46590	A	16317	2	1293	

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16223	46591	A	16318	219	1912	PHPTRTSAQSVQYIEKDWGPG EGLEEGVGLGQLVAFDSFTVSF HFVSAGNSPSESEERERDPKV LTFPEYITSLSDSGTKHMAAGV RMECHSKGRCPSSCPLCHVTSS PDTPAEPVLLLEVTKAALLNTQS FPCSLMQLLQEATMSSLWCSTG GDVIEDWCRCDSAFGGCVPV CSFLSAHRLRLSTVHEPSSTLVV LEWEHSEPPIGVQVVDYLLRQE KVTDRMDHSKVETGEHLLHGG LVLIQGDKTTKKNALPHGFAP GPQYPRAMQEEQEEEEAVLLL QEAAVLLPLRVDRISCCFRHR ELLFLMLFPFLLWAETVLSFV DDIISGAKSPCAMPSQVPDKQL TTIYFQPLIARFSFSSRGLLRIM SSHCHGDCDVSTLDSYTVSAN HALPLPARFTLWGV DNTGRRS RPSDVIVYM*ITYFFPPSSEIAD KIYNLFNGYTSGEQQTAYNTL LDLGSPTLHRLVLYHYNQHYESF ASF*LKYPLCLIHRRKAGLILSQL GDLSSWCNGLLQEPKISLRRSS LKYLGCYSEIKPYGLDWAELS
16224	46592	A	16319	1	2031	
16225	46593	A	16320	1	739	MKRAGSSGGRGECDISGAGRL GLEEAARLSCAVHTSPGGGRRP GQAAGMSAKERPKGKVIKDSV TLLPCFYFVELPILASSVVSLEYF LELTDVFKPVHSGFSCYDRSL MPYIEPTQEAIPFLMLSLAFAG PATTIMVGEGILYCCLSKRRNG VGLEPNINAGGCNFSFLRAV RFVGVHVFGLCSTALITDIHQLY TGHQAPYFLTVRTPNYSLNVS CT*NSYLAEDIRSRSDLTLTHSG

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16226	46594	A	16321	48	1359	GDKNQNPNNWPLGEGKGNSLG RKETGRSNSRSHSSRSKSR*QSS SRSSRSRSHSRKKRHSRSTRTY SRSSWRDRMYRDDRH*YEVIV DCSRHGREYKGREPRHSGSLE RPTEQETSQPKIRKEIVETKGT RGNCGTTGLLRPKTMMVERSY GPQDRVAVGTWPHPGTERWAS SWDVSSSVRHQSEG VVQGW RCTHKSQQEVGACVNFRTPKVI LIYNLYLPVSHQFSKTFMSIVIV QKNLYLHNDFRALNVTHIYRLT IPNTTTCFATQDEDKQIFHTAA QHRSHSTSSYQYLSLTRSHRYEI VFYTRGLGAPFPAGDGHGKFQ RLGKPYSHSVHFIPODKTQHIS INTPHKNSETTKQHTCSFAYGL YYYQQKEDNPYAWPQVPA EMVSRLAQSRHSQQSILHFSHQ SYHTDHISTV
16227	46595	A	16322	227	3020	SCIKPRRKEMGRSNSRSHSSRSK SRSSQSSSRSSRSHSRKKRYSS RSR\SRTRYSRSDRMYSRDY RRDYRNNRGMRRPYGYRGRG RGV/YQQGGGRYHRGGYRPV WNRHRSRSPRR\GRSRSPKR RSVSSQSRSSRSTRYSSRSRSPR SSSSRSSSPYSKSPVSKRRGSQE KQTKAEGEPQEEPLKSKSQE EPKDTFEHDPSESIDFNKSSAT SGDIWPGLSAYDNSRSPHSPSP IATPPSQSS
16228	46596	B	16323	258	3728	
16229	46597	B	16324	1	435	
16230	46598	A	16325	1120	1209	ASSDNPP*SEPRVSLTIEGQEIDF FLDTGTAFSVLSSCPGWLSSRS VTIRGILGQPVTRYFSHLL
16231	46599	A	16326	1291	1582	IHQSA LCI*LVKKHTNQPVSS SGFVNA PIDTLYLATLVGPWRT LCVHTLYLVNLVGMWRTFVSS SGIVNAPISALSKQTTWLYQSA GCGWGQIRE

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16232	46600	A	16327	2	840	APAVATEVLPGAGLTAGVLLWSDPKEPSNPGSSHRVGASDLDPAHPTLLSYTMQKLEELDVVLFDRSGHRTKFTNVGRMLLERGRVLLQAADKLTTDAEALARGWETHLTIVTEALVPTPAFFPLIDKLAANKANTQLAIIT*VLGAWERLEQGRADIVIAPDMHFRSSSEINSRKLYTLMNVYVAAPDHPHQEPEPLSEVTRVKYRGIAVADTARERPVLTVQLLDKQRLTVSTIEDKRQALLAGLVATMPYPMVEKDIAEGLRLRVVSPESTS
16233	46601	A	16328	3	923	RFLSDGTIISVDSAGKVQFWDSATGTLVKSHLIANADVQSIADVDFPFGHESRATEALCWAEGQRLFSAGLNGEIMEYDLQALNIKYAMDAGFGPIWSMAASPSGSQLVGCEDGSVKLFQITPDKIQFERNFDRQSKRILSLSWHPSTHIAAGSIDYISVFDVKSGSAVHKMIVDRQYMGVSKRKCIVWGVAFLLSDGTIISVDSAGKVQFWDSATGTLVKSHLIANADVQSIADVADQRQFRGGRHSRGNLSPSAGPCASNSS*EAVGADKTVPSHS*RAHCGPTAQQR*YLGDTDLTVFRP
16234	46602	A	16329	2	1059	
16235	46603	A	16330	582	1540	
16236	46604	A	16331	1	720	
16237	46605	A	16332	1	477	
16238	46606	A	16333	1	540	
16239	46607	A	16334	1	261	
16240	46608	A	16335	964	1574	LRWCCGSQFLFRGYWGGVTGRYLTVLPPHLAVGCMAPWGPFSVRIAAVVFIQIFAGEVFWCPVMCVRGLCTPVLTVGPVGHGNSHIPAIVFTCSLQTLVGGTRRWRC CAAGDVTKFPALVGVGGETPRPQLPIGVTTVILLQVLVVKFGRNVMSVWALRVPLAFQSRH/ASWKFCRHSFLHCNAYIPLHTQECRSSHISFLDQ
16241	46609	A	16336	3	87	
16242	46610	A	16337	1	1398	

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16243	46611	A	16338	1596	2205	LRWCCGSQLFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIAAVVFIQIFAGEVFWCPVM CVRGLCTPVLTVGPGNGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVAKFPALVGVGGETPR PQLPIGVTTVILLQVLVWKFGR NVSMVVALRVPGLAFAQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHSIFLDQ
16244	46612	B	16339	276	442	
16245	46613	A	16340	1	300	
16246	46614	B	16341	1	903	
16247	46615	A	16342	119	889	RQHILESHSRPILCTTWPLLIQ DPRTLQSAAMLLTQSLFGIFT RTRMKFGAVTWGGPPLGDQS PSSCSLLREKDPPTTSGPQTHQ PKEHLTNFKSGVRRDACLGP SPLAASPAFLGKGQVPQPLISLC PDPFLPHNPLISLRPNPLCPHPD LVSLCPDPFPAFLAHLNFQTP PQQPGIPPEPPPGACYKCKQSD HQAKECLQPRIPPKPCPCAGPH WKSDCS THLAATPRAPGTAE GSLTDSFSA
16248	46616	B	16343	1	498	
16249	46617	A	16344	3	903	
16250	46618	A	16345	1	684	
16251	46619	A	16346	2	1028	
16252	46620	A	16347	1	338	
16253	46621	A	16348	2	392	
16254	46622	A	16349	790	2184	
16255	46623	A	16350	773	890	
16256	46624	A	16351	467	606	
16257	46625	A	16352	1569	1841	
16258	46626	A	16353	430	980	LLTEDALDDLPSFLLTGQQTPA FGRRVSGVIEIADGSRRRKAAA LTESNYRVLVGELDDEQMAAL SRLGNDYRPTSA YERGQRYASR LQNEFAGNISALADAENISRKII TRCINTAKLPKSVVALFSPHGE LSARSGDALQKAFDTKEELLKQ QASNLHEQKKAGVIFEAEVIT LLTSVLKTSASRTSLSSRHQFA PGATVLYKGDKMVLNLDNRSR* RGIT*AAGI*PS*AEKSWGDI*S* RSYHSFNFECA

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16259	46627	A	16354	1	343	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGVGMARG NAITLPPVCGRDVKFTLEVSGVI VLRRLPGYGQVMNVTRSCLLR THWMISSLLFY*L VNRHRRSVE EYLV
16260	46628	A	16355	1	584	MLRDLLKNVDLKGFEFDPVRI TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVVRETDEVGKGQI RMRTVFEQAIDQRSSDTNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGVGMARGNAITL VCGRDVKFTLEVSGVIVLRRL GYGQVMNVTRSCLLRTHWMI SLLFY*L VNRHRRSVEEYLV
16261	46629	A	16356	62	350	SLPNLDNAACSSSSSPTRTR*SL SVSAAALRRRLPSAISDHTREVF STLSPRSTSRVNFTRPHTGKV MALPRAITPTRAINESTIGAAGV DNEV
16262	46630	A	16357	291	502	RLFVHHVHKHLLGDNRYPI WIMQPSAHHP/RSPTRTR*SLSV SAAALRRRLPSAISMTPTDLRP NAGVC
16263	46631	A	16358	1	378	
16264	46632	A	16359	159	433	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKHLLGDNRYPIW IMQPSAHHP/RSPTRTR*SLSVS AAALRRRLPSAISMTPTDLRPN AGVC
16265	46633	B	16360	1	624	
16266	46634	A	16361	3	299	
16267	46635	A	16362	163	699	
16268	46636	A	16363	795	980	
16269	46637	A	16364	663	734	
16270	46638	A	16365	391	1248	
16271	46639	A	16366	1	1143	
16272	46640	A	16367	1	271	
16273	46641	A	16368	1	493	MSKRRWL TGNNGSDRENIRLDL GFLVSDDEEKRYKCEDCGKAFN RSSNLTHKKIHTGEKPYKCEE CGKAFKRSSILTHKRIHTGEK YKCEECGKVFYKYLSSLTHKIIH TGEKPYKCEECGKAFNWSSHL TTHKRIHMERNPTNVKNVAKA LSTPLPLNLIK
16274	46642	A	16369	728	1428	
16275	46643	A	16370	3689	3864	NYKSFFKWS/SQMOSMTKIYRG PLDHPDSPCSNVNDIEGTPPEEI STAQPLHPRPAGSS

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16276	46644	A	16371	2	126	WPLLLGLCLSLTKEWGFQA*LE KHVVRVKFSPSHNLVPGRSI
16277	46645	A	16372	728	2207	
16278	46646	C	16373	1	873	
16279	46647	A	16374	1220	2097	
16280	46648	A	16375	73	1438	QDLRLFYLKDTMFSKLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVALERKGKIYLDWVEG RKYDFDLSSYSVNVQGHCHPKI VNALKSQVQGN*PLTSRAFYN NVLGEYEEYITKLFNYHKVLP MNTGVEAGETA'CKLA'RKWG L'YTVKGIQKYKAKIVFAAGNF WGRTL'SAISSSTDPTS'YDGF MPGFDIIPYNDLPALERALQDP NVAAFMVVEPIQGEAGVVVPDP GYLMGVRELCTRHQVLFIADEI QTGLARTGRWLAVDYENVRPD IVLLGKALSGGLYPVSAVLCDD DIMLTIKPGEHGSTYGGNPLGC RVAIAAL'EVLEENLAENADK LGIILRNELMKLPDSVVTAVRG KGLLNIAIVIKETKDWDWAKVC LRLRDNGLLAKPTHGDIIRFAPP LVIKEDELRESIEIINKTILSF
16281	46649	A	16376	600	806	

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16282	46650	A	16377	1	2255	EPDVCAKMAGRSMQAARCPD ELSLTNCVVNEKDFQSGQHVI VRTSPNHRVYFTFLKTHPSVVP SIAFSLPQRKWAGLSIGQIEVS LYTFDKAKQICIGMTIIEIDFLQK KSNDSNPYDITDKMAAEFIQQF NNQAYSVGQQLVFSFNEKLF LLVKDIESMDPSILKGEPATGK RQKIEVGLVVGNQVAFEKAE NSSLNLIGKAKTKENRQSIINPD WNFEKMGIGGLDKGFSDIFRR AFASRVFPPIQVEQMCKHV GILLYGPPGCGKTLARQIGKM LNAREPKVYVNGPEILNKYVGES EANIRKLFADAEEERRLGANS GLHIIIFDEIDAICKQRGSMAGS TGVHDTVVNQLLSKIDGVEQL NNILVIGMTNRPDLIDEALLRPG RLEVKMEIGLPDEKGRQLQILHH TARMRGHQLLSADVDIKELAV ETKNFSGAELEGLVRAAQSTA MNRHIKASTKVEVDMKEAESL QVTRGDFLASLENDIKPAFGTN QEDYASYIMNGIHKWGPVTRV LDDGELLVQQTNSDRTPLVSV LLEGPPHSGKTLA AKIAEESN FPFIKICSPDKMIGFSETAKCQA MKKIFDDAYKSLSCVVDIIE RLLDYVPIGPRFSNLVLAALV LLKKAPPQGRKLLIGTTSRKDV LQEMEMLNAFSTTIHVPIATG EQLLEALELLGNLKDKERTTIA
16283	46651	B	16378	1	2181	
16284	46652	A	16379	1	441	
16285	46653	B	16380	47	482	
16286	46654	A	16381	1	636	MRDPNTRKSRGFGFVTCATVE EVDAAAMNARCKVVGRTVEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGSGNFGGGRGGGF GGNDNFGRGGNFGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDNFVNYNNQSSHFPM
16287	46655	A	16382	1	762	
16288	46656	B	16383	59	1042	
16289	46657	B	16384	76	848	
16290	46658	B	16385	179	400	

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16291	46659	A	16386	27	372	VGSLRRPGPPRETRRLRRRRS LEPWAFLLKEAKVG*QPSSLFQ WEGPMGLCSTPLVMNMGDSLI TKVHLFQVPPLTITSPGPRTRRPH S*YPSPLATGVWAAVWCKQP HFPAK
16292	46660	B	16387	134	284	
16293	46661	A	16388	1	2013	
16294	46662	A	16389	313	770	IFGFVVMAMHGAPGQAVLELLQ LTGDQSLGLSQRHMAALDALV HLLHGGGLAVLTAGAAPEHET RGIALGRLREEQCRNPRCVKRGW AQEKQA*PGQRGGRKSSPFWSF TL/DSASAGPRAAHLHLPDVL LQTLHHGLHRLHPELLQLSHG
16295	46663	A	16390	1	2753	
16296	46664	A	16391	1	1363	
16297	46665	A	16392	26	181	
16298	46666	A	16393	1	867	
16299	46667	A	16394	1	1447	
16300	46668	A	16395	31	659	APALPGCEHMMAIKELKVCLL GDTGVGKSSIVCRFVQDHFH NISPTIGASFMTKTVP CGNELH KFLIWDTAGQERFHSLLPLYL/R GSAAAVIVYDFTEAGFHFPPLK KWW/KRLKELGPE/NIVMAIAG NKCDLSDIREVPPGMLKEYVA ESIGAIVVETSAKNAINNEELFQ GISRQIPPLDPHENGNNG/TIKVE KPTMQASRRCC
16301	46669	A	16396	1	1182	
16302	46670	A	16397	1	513	
16303	46671	A	16398	146	429	TFYTCFSPSVIPFSFIHTKPYPG HHQSFYMTNVSSNNPTISPLTT RPPFSLISALGSHAAPNPA*SSP EKHRPFSLHTTPQKFRPNTSTL F
16304	46672	A	16399	1	435	
16305	46673	A	16400	56	477	ARAAGGESCEGPGVGRCSFSS YRQTPCCQRLVNVPKTRRTF CKK/CGKH/RPHKVTOYKKGKD SFYA/QGRRRYDRKQSGYGGQT KPIFRKKA/KTTK/MGLRLECV EPNCRSKR/MLAIKRCKHFELG GDKKRKGQVIQF
16306	46674	A	16402	183	373	IHGSSNPPTPERETLFWHAENG SALASC*KSGGQAPKRVRTTL ILKAEILGLMLVLRSHGM

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16307	46675	A	16403	1	881	MPFKCKKQHTFNKTSPEKGAII FTHGCLCTSPFNSELSEHLGNL KLSSWEHLHHRSQQLSVRLH VPTQPQVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLIIREASSVSEELHKEVQ EAFLLHKGHCLFRDLVRIQGG DLLTPVSRILIGNPGCTYKYLNT RLFTVPWPVKGSNIKHTAEIA AACETFLKLNLYLQIETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLNFMDFPKMPYLKEEP YFGMGKMAVSWHHDENLVDR IQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSEQGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRCDKKSLLTLVRKINLQKG RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCRSPWRGLGHL EGNAQKGHLLHGYNKNGQHL L*MPPSPPLPGGQKGRVLGMLS WVLT*VYKIQH/GT/PAAVEG*D EAFLAVWLGEVGDFSPVPSL LWHS*RGCCSIHGIPLELNPVH QIFIM/SASSLPSPCQNKVPLSG
16308	46676	A	16404	1	459	
16309	46677	A	16405	1	2025	
16310	46678	A	16406	1	816	
16311	46679	A	16407	1	217	
16312	46680	A	16408	3	135	
16313	46681	A	16409	21	218	
16314	46682	A	16410	392	3744	LNYKMLLKNLSPMSMLKAFSF AIPMPQAQTNLPTAKPNGFQP LLLSQYNACPPQ*EAG/QVDL CSTIPLNLLPDSLPLTVPTGPLPQ GSVGLVLGRASSAKGITIHTGL INSDSVDEIKLITSAKVPVSILAG ESIAQLLLLPHILNKGDKTRGP GMGSRGEKAAAYWINVISKQRP TCTHIHQGRKFEGLVDTGADV VISSSLWPSSWLKHPTNMGVLV VGKAEVYVGSTFILPCTGLDGQ KGTIQPYIM
16315	46683	A	16411	1	783	
16316	46684	A	16412	1	1911	

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16317	46685	A	16413	3	1381	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDR SSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIKQDD KAAETCNWRWVSESRLQLRAS VDAFHARASHYNAGECLHQLA ALNSRLNCAQEMARRDSIGVVP PVPWRTVVVSGIAGEAKLDHL RLVSLIGREVNKENS PAATR WL FSFQAGALAGGQIVLQA AKPN AHGQPVVATRNLN PAGIVAV LKQRPRLVAAAVQAFYLRDPID LRACRVFKTFLPETRIMTSYYAI EWSLWTLVDVLHAENSEAHM SHNSYDPPSDVARHLTHLPMSP IPDYIARFRYRHR SRVRLTARK LSPAFMRCSEIQRYSTMLERG FNGGYCRSTTVRVVTEATRML
16318	46686	A	16414	1	1191	
16319	46687	A	16415	1	1909	
16320	46688	B	16416	1	1791	
16321	46689	A	16417	1	1818	
16322	46690	A	16418	1	1044	
16323	46691	B	16419	1	1140	
16324	46692	A	16420	1	1062	
16325	46693	B	16421	1	972	

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16326	46694	A	16422	1	1758	MDTFLQAERKDYMEAYELIEQ EEQGVKELNRLPTAPSAHPRD EAHLIMVDKLFVLLDSVCQYF IEDFCIDVHHINSRW/AVCQYFI EDFCIDVHHINSRWIKDLNVRP KTIKLEENLGNTIQDIGMGKD FLSKTPKAMATKAKIDKWDLIK LNNFCTAKETTIRLPVPNPGGPV AETPLSRVFLREARKTLKPHQ STCLSKGRDNSIDSWKTAARVL KTAISSTPTIPILKQDQTQEWVS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTFIDGGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENG YQGE ESLFNKAYYGGGTNFFRKESQK LQQSAKKRDAELANGALGIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLGELGW RREWSSGDRKSLARLSKTGTLG LAALT YKCTRDQWTVYCRVIR EKNLCQDMRWYQRCQCTCRD FYANKMSPATAELVTRSPKGRS KLRLRYQLVFISLKGKPKARKGK ASSGSKLSLLSSSKTV ALAGMG RGDEFQMELESEDLT SERDGIL TPTSSNQKSKAYGSLIRT
16327	46695	A	16423	1	4449	
16328	46696	A	16424	3	3859	QFLPNLDSTVLGENYFDGTYQ MLYLLVKGTIPVEIHTATVIFVS FQLSVA TEDDFYTSNHLVKNLA LFLKIPSDKIRISKIRGKSLRRKR SMGFHIEIGDPPIQFISNGTTGQ MQLSELQEIAGSLGQAVILGNIS SILGFNISMSITNPLPSPSDSGW IKVTAQPVERSAPVHHVAFVS SLLVITQPVAAPGQPFPPQPSV KATDSDGNCVSVGITALTLRAI LKDSNNNQVNLSGNTTIPFSS CWAN

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16329	46697	A	16425	65	1905	RTSSRKTTNHCSEIKEDTNNWK NIPCSWIGRINIVKMAKLPKPPL VIPRQTGSGVDLQQTPTDLHLR VLTVRRKTNKQKGHPHQNPICT SPSSKTKVLEVLARAFRQEKEI KGIQVGKEEVKLSLFAADMIVY LENPIVSAQNLLKLSNFSKVS YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASRKIKYLGQLTR DVKDLFKENYKPLLNEIKEDTN KWKNNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNQWGWKDS LFNIWCWENWLAICRKLKDPF LTPYTKINSRWIKDLNVRSKTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLSKF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDITNRHFSKEDIYA AKRHMTKCSSSLAVREMCIKT TMRYHLTPVEEVVRAGEMAKTR RCQN VKGASEEGIRA/HCFVSH *PHCP/LWRATTLMETLKFKEPIE VPCKPLEKSVSLLLL
16330	46698	B	16426	1	2348	
16331	46699	A	16427	1	660	MPNFFIDRPIFAWVIAIIMLAGG LAILKLPVAQYPTIAPPAVTISA SYPGADAKTVQDVTVTQVIEQN MNGIDNLMYMSSNSDSTGTVQ ITLTFESGQVQNKILQLAMP/LL PQEVQQQGVSVKSSSSFLMVV GVINTDGTMTQEDISDYVAAN MKDAISRTSGVGDVQLFGSQY AMRIWMNPNELNKVERNSRRQ DVGERDISGSRKVNKESREDE EVT
16332	46700	A	16428	1	975	

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16333	46701	A	16429	1171	2007	AVDIVQGLVRGWGRQGWLLS GRGIPEGPLLLWGATVGSWRR LLPLTGVCGPLGAVPVLIS*LL GGAQVQLLREEEAGHELVQQL VDGALVLLLDGRLPLHVVADE RCCVLQDLPVLVHKDEVRLAR GGTAALRVLLLVVVDALDLV EQALGAQGLGVVLEHVSLVV KGLEVRLLIILPPDLVEALLGLP PLLFLGLQSFQDNGDSGDRVLL EALDDLRLGLVAIDAINGTALDH LRRASQGVVQPELLLVFRHPR QLLLHTFQHTDCGQVRLQDIV
16334	46702	B	16430	1	768	
16335	46703	A	16431	1	2553	
16336	46704	A	16432	3	573	CEMHSVQKNEHDKTPEHSRKR SRPSLLRPVSAPAKKMKMLRGT KDLISIAAVGKYGTLP/IGIFFL*Q GPPGAEPEGGV*KLPPLHRTLQ PGAGVWL*APAAQPISGVSS* LPRAP*GGSVVPNSIYLVFSYCF *AMIVLF*NPVY*LT*LI*LLIPM HL*GAIIHLGLTLQVLPVPTSV VSILTRIQQWVLE
16337	46705	A	16433	110	1347	LTTATGMELSMGTTWTSLCK AENAAQCQEKPHIWLCSISFL RLKRRRTTTKNTGTKKIASTVA VTIPITPLPTAFCAPEPAPVLLT SGIPPRLNASENPQLLSGS/SSSD STGTVQITLTFESGTDADIAQVQ VQNKQLQAMPLLPQEVQQQGV SVEKSSSFLMVVGVINTDGTM TQEDISDYVAANMKDAISRTSG VGDVQLFGSQYAMRIWMNPNE LNKQFLTVPDVITAIKAQNAQV AAGQLGGTPPVKGQQLNASIIA QTRLTSTEEFGKILLKVNQDGS RVLLRDVAKIELGGENYDIAEF NGQPASGLGIKATGANALDT AAAIRAELAKMEFFPSGLKIG YPYDTPPVVNISIHVEGKTLVE ANNLVFLAMNLVLQEFPPADVIS TIAGPPSLRSSRVPLG
16338	46706	B	16434	1	2550	
16339	46707	B	16435	1	630	
16340	46708	A	16436	270	455	
16341	46709	A	16437	174	492	GALQPPPCVTGAPFWAGQGWS PLPQLAGRCGRGTVRGTGAAC GACGPAGVPGGLGLGGPRTRSS RPALLAPNGGLSTRASGCGGC TESPSSGWPTSAAALDFLPGP

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16342	46710	A	16438	3	413	
16343	46711	A	16439	31	507	
16344	46712	A	16440	1	537	
16345	46713	A	16441	152	247	
16346	46714	A	16442	44	208	EEMTSKMYKVIIRKTMKASVC TQVKHPAIASICKAVL*VGPWS GHFKYAGLPIL
16347	46715	A	16443	1	549	
16348	46716	B	16444	376	862	
16349	46717	A	16445	2	1603	TNVSTTIATVVLNALARATKLL PPGHRRSNPATAAASSPPTTLA HCSLRSHHQPLRGEQQQAIR TAGRCCKALSSCPFFECGRSSG APPGACGQIFRVSNAKLEPQAR PSSPVTGGPLDLMACRVVAAS REMAMLIAQALQTINYGRDDE NGHTHSACEVHHGGRVPELSV PSFSWRNRNNSFIMGSIPTDY TLSCVYLPREDVVLIIYCGVSTN EQPDEEVPRTRFPTVAVSIGFAV RQELEFGVIYHCLVYRLYTGR GRGAFCCNGQLRVSGETASGM LPGIQIHQIQEQNLQVGASTEL PCNLHTTRIRVASAPSSAPEDGT ESKTCNFRVTSKGYCLALPRV PFPLTTGYKHLHKPPTGTHSTY HSMCLLNQPGWLRITISILFLNN KICWQKKSGREIKIEDYFPEYA NYTVPEDGHLSAHLIYLSGLCM WLQHSQDSILYTDYRRGGEN SFVMVNSVALNGDGCICSETE AELIEVSHRLNCSREVEHLNA TGELGEERAHGRQQAACGFTIA
16350	46718	A	16446	1	648	

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16351	46719	A	16447	329	2497	GEGQAVLQGKMGEEKPIGA GEEKQKEG/GKKKNKE/GSGDG SRAELNPWPPEYIYTRL KAEHDSILAEKAEKDSKPIKVT LPDGKQVDAESWKTTPYQIAC GISQGLADNTVIAKVNNVVWD LDRPLEEDCTLELLKFEDEEAQ AVYWHSSAHIMGEGMERVYG GCLCYGPIENGFFYDMYLEEG GVSSNDFSSLEALCKKIIKEKQA FERLEVKKETLLAMFKYNKFK CRILNEKVNTPTTIVYRCGPLID LCRGPHVRHTGKIKALKIHKNS STYWEGKADMETLQRIYGISFP DPKMLKEWEKFQEEAKNRDHR KIGRDQELYFFHELSPGSCFFLP KGVYIYNALIEFIRSEYRKRGFQ EVVTPNIFNSRLWMTSGHWQH YSENMFSEFEKELFALKPMNC PGHSLMFDHPRRSWRELPLRLA DFGGLHRNELSGALTGLTRVRR FQDDAHIFCAMEQIEDEIKGC LDLRLTVYSVFGFSFKLNLSTRP EKFLGDIEVWDQAEKQLENSL NEFGKELWELNSGDGAFYGPKI DIQIKDAIGRYHQCATIQIDFQL PIRFNLTVVSHDGEDKKRPVIV HRAILGSVERMIAILTENYGGK LAPFWLSRQVMVVPVGPCTD EYAQNVRQQFHDAKFMADIDL DPGCTLNKKIRNAQLAQYNFIL VVGEKEKITGTVNIRTRDNKVH
16352	46720	C	16449	189	456	
16353	46721	A	16450	3	1414	
16354	46722	A	16451	95	293	

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16355	46723	A	16452	1	1136	MKKRPGHSLFQFQFLMFLRFE ARQPLSEEDVASLSWRPLHLP ADWQRAALSLWTHRTFREVLK EEDVHLTYQDWLHLELEIQPEA \MLFQILNGRTSTSGRSMSTFSL SPRLQGAVTETCRLRVFPFLSTH* WISTKAQGYMTTKILIWLSVA AQEMRILFPDCRRW*LTWSCSK TS*CLSATPLPRSTSSLRFSADG SRL*QAGGAWLPFRDRGSC*C TNGSSSACLRLSSAAAASRQNS PSLPDASSSTWSTLR*ETSAPT EVP*HRTSLPTS/QGPPERLSAE QRPLPDGR/RSYWPSSARRNA/RL ILT/FCSGVVAEPGACAALPVEE TLPEAAPGTAEATRRPAVCQR VRVGAIGFPFLLLDGPAVVTS DLK
16356	46724	A	16453	3003	3482	HRPRTRPCPWRNRNHLGHRAP L*PQRARR*SPNPEDGSEDEHL *QLC
16357	46725	A	16454	598	759	KVILGLWTEEAQVGQGGLRAP TPRLLHHVLK*DIKR* AHRPDA VAHACNPNTLG
16358	46726	A	16455	1	1767	
16359	46727	A	16456	2	572	
16360	46728	A	16457	1	726	
16361	46729	A	16458	155	1334	HALGRRGGSQELSAAGAASP SGSERRAPGALPCAWAALLV LGAPPASRPGFAAGKTMMLK EYRNCMLPTVDEYKIIGQLYM ISKHSH/EQSDRGEGVEVVQKE PFEDPHHGNGQFTEKRVYVLSK LPSWARAVVPKIFYVTEKAWN YYPYTITEYTCFLPKFSIHET KYEDNKGSNDTIFDNEAKDVE REVCFDIACDEIPERYKESD PKHFKSEKTRGQQLREGWRDS HQPMCSYKLVTVKSEVWGLQ TRVEQFVHKVVRDILLIGHRQA FAWVDEWYDMTMDVREFER ATQEATNKKIGIFPAISISSIPLL PSSVRSAPSSAPSTPLSTDAPEFL SVPKDRPRKKSAPETLTLDPPE KKATNLNPGMHSSDKPCRPKSE
16362	46730	A	16459	26	355	
16363	46731	A	16460	86	489	
16364	46732	B	16461	1	201	
16365	46733	A	16462	3	367	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16366	46734	A	16463	58	553	VARSAPPDGAAGCAGPGSRRT MAEQSDEAVKYITLIEIQKH HSKSTWLILHHKGYDLTKFLE EHPGGEEVLREQAIGDIAENF EDVGHSTDAEMSKTFIIGELH PDDRPKLNKPPPE*RRCFKETLI TTIDSSSSWNTWVIPAISAVA VALMYRLYMAED
16367	46735	A	16464	185	489	
16368	46736	A	16465	134	345	
16369	46737	A	16466	572	1017	
16370	46738	A	16467	911	1013	
16371	46739	A	16468	1	157	FGGNQKGERGTGQKKGGERGAK RKDFPGAVCSIALGLAKGCG* SWRPSSAN
16372	46740	A	16469	71	369	SCGLSLIKMTTSQKHDFVAEP MGEKPVGSLAGIGEVLGKKLE ERGFDAKYVVLGQFLVLKKDE DLFREWLDKTCG/APNAKQSR DCF*CLREWCDFAFL
16373	46741	A	16470	1	831	
16374	46742	A	16471	368	679	SSQLNKAPSLFNPVSEEFCLWL LLQKELLTRITSLKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
16375	46743	A	16472	536	717	
16376	46744	A	16473	1	1632	
16377	46745	A	16474	1	651	
16378	46746	A	16475	1	903	GGGGRMKLIDYGLSGYQEESA EIVKAMDFITSTAILPLFGCLG VFGLFRLLQWVRGKAYLRNAV VVITGATSGLGKECAKVFYAA GAKLVLCGRNGGALEELIRELT ASHATKVQTHKPYLVTFDLTDS GAIVAAA AEILQCFGYVDILVN NAGISYRGTIMDTTVDVDDKRV METNYFGPVALTKALLPSMIKR RQGHIVAISSIQGKMISIPFRSGI CQPSKHATQAFVFDCLAVPEM/E QFEIETVISPGYIHTNLNSVNAIT ADGSRGVMDDTTTAQAEALW RWPRMFLLLWGRRRKM
16379	46747	A	16476	359	1094	
16380	46748	A	16477	1	906	
16381	46749	A	16478	1	371	
16382	46750	A	16479	11	257	
16383	46751	A	16480	2	419	
16384	46752	A	16481	1	2514	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=I, unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
16385	46753	A	16482	262	822	AGCTRKTRIIDVVYNASNNELV RTKTLVKNCIVLIDSTPYRQWY ESHYALALGRKKGAKLVRVTS L*GLWGGQPDSSLVMKTLSSS ATEGREMRAF*AEEGQHWGVQ GSRKLPGPAFLP*A HIFVSPFQT PEEEILNKKRSKKIQKKYDER KKNAKISSLLEEQQFQKGKLLGE KADELEVGSRRD
16386	46754	A	16483	2	799	SQWLKLPSPPLPHAGISRY'NWD QAP*KTGGPRESYPYHKKREVM KLGRPSCPN/NPKIGPPAGIQHSP VCRGG*QVNTRAPEVWTVGNF ISWGLICRCTP*NKDPSIVVLQC HLNNGAWFRTQGPWVEEFCIV ASSDQQQPYRQWVRSPNLCAC PLGPAKKGEPLDLSLRKEEIFK QKNDLKKLRKEI*LKRKKNCOI PAVLPGREQFPARGKLSRA/SR FQGPQQLWAEQDGFCA*EGQK SLEFLSFRKNPRPRKGQIKFLVF VFHPC
16387	46755	A	16484	1	681	
16388	46756	A	16485	287	694	IISSRPAPASAPRRWGLSWSWQ RCWC**TPSPSPRPRPAEG\CLR GRGRGAGGGLPFRPHGSLVHS GAQPPHFPPLPGGARQTCGAPP GSWSCVL/CRPAETGAAAAGSP AAAGSTRKRLGRAQGRGCRVA ALRLSPTH
16389	46757	A	16486	189	381	QGAGSVGRGQQLKPGPFFLE KLLSLGCT/LSG*ALRARACCSP CCRPGAGCQPAPVAQAGHP

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16390	46758	A	16487	1	2388	QGRLLVAKPPRPARSTAADSSTP RDMLGLRPPLALVGLISLGCV LSQECTKFKVSSCRECIESGPGC TWCQKLNFTGPGDPDSIRCDTR PQLLMRGCAADDIMDPTSLAET QEDHNGGQKQLSPQKVTLYLRL PGQAAAFNVTFRRAKGYPIDLY YLMDSLVSMLDDLNRVKKLGG DLLRALNEITESGRIGGFSVDK TVLPFVNTHPKLRNCPNKEK ECQPPFAFRHVLKLTNNSNQFQ TEVGKQLISGNLDAPEGGLDA MMQVAAACPEIGWRNVTRLLV FATDDGFHFAGDGKLGAILTPN DGRCHLEDNLYKRSNEFDYPS VGQLA/HKLAENNIQPIFAVTSR MVKTYEKLTEIIPKSAVGELSE DSSNVVHLIKNAYNKLSRVFL DHNALPDTLKVITYDSFCSNGV THRNQPRGDCADGVQINVPITF QVKVTATECIEQESFVIRALGFT DIVTVQVLPCQECRCRDQSRDR SLCHGKGFLECGICRCDTGYIG KNCECQTQGRSSQLEGSCKRD NNSIICSLGDCVCGQCLCHTS DVPGLIYGQYCECDTINCERY NGQVCGGPGRGLCFGCKRCRH PGFEGSACQCERTTEGCLNPRR VECSGRGRCRCNVCECHSGYQ LPLCQECPCPCPGKYSACAE LKFEKGPFGKNCSAACPLQLS NNPVKGRCTCKERDSEGCWVAY
16391	46759	A	16488	353	1205	
16392	46760	A	16489	11	440	FRALTEGDTQLNWNVISFPVAE ELSHIHENLVFLETVNQPHHQ VSVPSNNVHAPYSSDKEHMCT VVYFDDCMSIHQCKISCESMG SHPNIRWVSLMACCECIGPECID YGSKTVKCMNCMF*RRQMOT KAT**NNRYKKLKK

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16393	46761	A	16490	515	1808	KRKQTGEFGFNSFE\WCDSDLCEMNAGMPKGNLNEQDPKHCPESEKCLLSIEDEESQQSILSLENHQQSTQPEMHKYGQLVKVELEENAEDDKTENQIPQRMTRNKA NTMANQSKQLASCTLLSEKDS ESSSPRGRIRLTEDDPQIHHPR KRKVS RV P Q P V Q V S P S L L Q A K E K T Q Q S L A A I V D S L K L D E I Q P Y S S F R A N P Y F E Y L H I R K K I E K R K L L C S V I P Q A P Q Y Y D E Y V T F N G S Y L L D G N P L S K I C I P T I T P P S L S D P L K E L F R Q Q E V V R M K L R L Q H S I E R E K L I V S N E Q E V L R V H Y A A R T L A N Q T L P F S A C T V L L D A E V Y N V P L D S Q S D D S K T S V R D R F N A R Q F M S W L Q D V D D K F D K L T C L L M R Q Q H E A A A L N A V Q R L E W Q L K L Q E L D P A T Y K S I S I Y E I Q E F Y V P L V D V N D D F E L T P I
16394	46762	A	16491	1	699	
16395	46763	B	16492	6	5954	
16396	46764	A	16493	22	585	
16397	46765	A	16494	1	837	
16398	46766	A	16495	1	1422	
16399	46767	A	16496	13	189	
16400	46768	A	16497	193	366	GRPGIFKSFRCRW*CFHMEFIWKSSA*/WSGVVHAGNICLSISNPEDLRASQFCSSG
16401	46769	A	16498	1	888	
16402	46770	A	16499	3	531	DAWADAWADAWADAWALQSRRRRRRTQTLTSSPHDCYRGLQSLLLILCKMATLKEKLIAPVAEE\EAITVPNNRITVLGDGQVGMA CAISILGKSLADELALVDVLED KLKGGNDGSGFHG\SLFL/QTPK IIVGRIKDYSGVTAQF*RIVVGN WQGVRSARRGKVRNLVQRN VNVFK
16403	46771	A	16500	2	406	
16404	46772	A	16501	2	394	
16405	46773	A	16502	1	399	
16406	46774	A	16503	74	464	FAFNMPKASAPAPKKGSKKAVTKAQKDKGKRRKSRKESY SVYVYKVLQVHPDGTISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP GIELAKHAVSEGTKAVTKYHQ
16407	46775	B	16504	84	832	
16408	46776	B	16505	201	829	
16409	46777	A	16506	1	804	

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16410	46778	A	16507	3	615	PECIIGIDILSSGQNP HIGSLTGR VRAIMVGKAKRKP LELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPIWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGP AIFCR* LLSF*ETALGLLLGFGGN*TFDY
16411	46779	C	16508	25	153	
16412	46780	A	16509	1	1317	
16413	46781	A	16510	1	1557	QVPGCIIGIDILSSWQNP HIGSLT GRVRAIMVGKAKWKPLELPLP RKIVNQKQYHILGGTVEISATIK DLKDTEAVTPTTSPFN SPIWPV QKTDGSWRMTVDYCKLNQVV TPIAAAVPDV/VSLLEQINTSPG TWFEWSPK/KALQQVQAAVQA ALPFGPYDPADPMVLEVSAD RDAIWSLWNA AIGESQRRPLGF WSKALLSSADNYS PFERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ HWKCAVHT/IKWKWYIRDWA QAGLEGTS*LYWPRASRYQQG HQDLFILRDLPSQVFIRDKLME RRNRRTGRTEKARIWEVTDRT VRTWIGEAVAAAADGVTFVS PVTPTHFRHSYAMHMLYAGIPL KVLQSLMGHKSISSEVYTKVF ALDVAARHRVQFAMPESDAVA MLKQLS
16414	46782	A	16511	41	428	
16415	46783	A	16512	1	1026	

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16416	46784	A	16513	648	1886	LDPEVAWAKWQHSTVKGPQKQFAFSWQGGQYFTFTGLPQGYINSLSLCYNLIPRDLDRFSLPQDITLVHYIDDIMLTGSSEQLAYTLLDLLVRRLLCAKQWEINL TEIQEA STSVKFLRVQWCGACQDIPSK MKDKLLHLFPPTTKKASLFGFRRQCIPHLECGPEQEKALQQAQAAVQAAVPLERYDPADPMVL/V/ELTWLWPLLSAQFASGQDQH*ALHMAPFLGVVSQLPGGKLIILDIFHHGKGRVLFSL*TLTPDMGLPILHIMLLPRLPSVNSQNALS TVMPGFTGPGIKGWKWHHSPLVIH*QNFCFLP*HYVLLA*R S*FQRKEPCHQET*Q*FH*TGS*GCQLDTLGSCYF*VNKLRLRELQ CWLG*LTQTIKMKSVYYITEN CWMKRSPVKRRKILELEEA
16417	46785	A	16514	1	402	
16418	46786	A	16515	1	396	PTPRGERSVHVEIPRRVSGSAGHAQWAGPVRVARPOLNAQLE GWLSQVQSTKRPARAIAPHAGYTYCGSCAAHAYKQVDPSTIQ RFRYSYDESQGEIYRSIEHLDKMGMSIEQLDPVSFSNYLKKYH
16419	46787	A	16516	2	358	
16420	46788	A	16517	2	769	
16421	46789	A	16518	1	1017	
16422	46790	C	16519	54	294	
16423	46791	A	16520	159	245	GISVSCSMYL*PDRSAGYYGLF KDRKEK
16424	46792	A	16521	1	1227	
16425	46793	A	16522	1	2697	
16426	46794	A	16523	200	696	YGI VTPGSLCAGDKQPKKQEK NPVLVSPEFVDEALCACEEYLS NLAHMDID/IGPGGPAVPQPPRA GPSSSVTPSGPVSPLQLGLWA VGRCLGIDPFCLVQPLPLPQASR SFTPLFCSTGLEDHCLRDVRVW ATFLGSWHSIVTKSMDCATKW TAHYPKCVLCGC
16427	46795	B	16524	1	960	
16428	46796	B	16525	1	2183	
16429	46797	A	16526	306	1844	
16430	46798	A	16527	59	189	YNSGCLYGSQCSVCRCL*GVRN QVRSQQQAMMAMAILVNKKGG
16431	46799	A	16528	1	2034	
16432	46800	B	16529	1	855	
16433	46801	A	16530	1	834	

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16434	46802	A	16531	65	172	
16435	46803	A	16532	321	429	
16436	46804	A	16533	460	647	
16437	46805	C	16534	529	804	
16438	46806	A	16535	3	433	
16439	46807	A	16536	1	484	
16440	46808	A	16537	511	681	QQGYTPFQSGSGRESFLASSSF WL/PGLPWLAAL*QALTPSSH SLLSYLCSLLFCHP
16441	46809	A	16538	51	634	PVPTFGLPARHTGAEKRRKNSG GEQLSKNNLYIRGLPPGGTDQD LIKLCQPYGKIVS/TRAFLDKTTI RCKGYGFVDFDSPAQAQKAVA SLKANGVQAQMAKLQERDPA\ GLSVSSLL/SMYEQELENMLK PFGHVISTRILRDANGVSRGVG FARMESTEKCEVVIQHFNGKYL KTPPGIPAPSEPLLCCKIADG
16442	46810	A	16539	1	759	
16443	46811	A	16540	74	352	
16444	46812	A	16541	1	747	GSVYLYCYKKSVAKTNTVSYK AGLICRYPQEDYESFSLPESVPL FCLPMGATIECWPSNSKYPLPV FSTFVLTGASAEKVYGAIIQFY EPYSEENLTEKQRLLLGLTSAD GKSDSSKTIHTNKCICLLSHWPF FDAFRKFLTFLYR/YSISGAHV LPIEKHISHFMHKVPFSPQRPRIL VQLSPHDNLILSQPVSSPLPSG GKFSLLQNLGPNNAVTLVFA VTEHKLIHSLRPSVLTSVTEAL
16445	46813	A	16542	319	969	
16446	46814	A	16543	131	342	NSDMGLNLGSALTG*PWVAIEF CCFGFFQIIIVFSCLLGWL*VAP HPNLPSSPAEYMDFREAQEGTD VIY
16447	46815	A	16544	1	1086	
16448	46816	A	16545	469	759	
16449	46817	A	16546	3	598	
16450	46818	A	16547	227	604	
16451	46819	A	16548	416	1814	
16452	46820	A	16549	763	867	
16453	46821	A	16550	1	1419	

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16454	46822	A	16551	915	3125	SLAGMRLTGTVSGGVEVR/TAK AGARVGPPELVGRPLEGECWY FSGVSRTOAQQLLLSPNEPGA FLIRPSESSLGGYSLSVRAQAKV CHYRVSMADGSLYLQKGRLF PGLLELLTYKANWKLQNPLL QPCMPQKAPRQDVWERPHSEF ALGRKLGEGYFGEVWEGLWL GSLPVAIKVIKSANMKLTDLAK EIQTLKGLRHERLIRLHACVSG GEPVYIVTELMRKGNLQAFGLT PEGRALRLPLLGFACQVAEGM SYLEEQRVVRDLAARNVLVD DGLACKVADFLARLLKDDIY SPSSSSKIPVKWTAPAAANYRV FSQKSDVWSFGVLLHEVFTYG QCPYEGMTNHTLQIMRGWF FGCISRSEAVRRLQAEGNATGA FLIRVSEKPSADYVLSVRDQA VRHYKIWRRAAGRLHLNEAVS FLSLPELVNYHRAQSLSHGLRL AAPCRKHEPEPLPHWDDWERP REEFTLCKLQSGYFGEVFEG WKDRVQVAIKVISRDNLHQQ MLQSEIQAMKKLRHKHILALY AVVSVDGPVYIITELMAKGSLL ELLRDSDEKVLVPSSELLDIAWQ VAEGMCYLESQNYIHRDLAAR NILVGENTLCKVGDFGLARLIK EDVYLSHDHNIPYKWTAPALAS RGHYSTKSDVWSFGILLHEMFS RGQVPYPGMSNHEAFLRVDA
16455	46823	A	16552	1	990	
16456	46824	A	16553	1	2847	MTAREHSPRHGARARAMQRAS TIDVAADMLGLSLAGEPHRACT GLQTTGYPGLDPSG*TRK*GRG MSALFL*TASAGA*~LH*FSSSLVA GAPPG*CGNVQVF/WLAHAQA MGTNNPIFLSSIAFFQDSLINQM TQVKLSVYDVKDRSQGTVKS ESDRVGNITVIGWQMEEKSDQ RPPVTRSVDTVNGRLHPPAPT MHSLSHRHSKKNSNFRALALM VLPVDESLEALGIRSKYASLR KDTLLKSVFGGAICR
16457	46825	A	16554	1	327	
16458	46826	A	16555	259	3109	
16459	46827	A	16556	262	3159	
16460	46828	A	16557	1	1398	
16461	46829	A	16558	123	393	
16462	46830	A	16559	245	424	

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16463	46831	A	16560	1	531	
16464	46832	A	16561	2348	2775	
16465	46833	A	16562	373	555	LRIQVTFDDVAVEFTPEEWALL DTTQKYL YRDVML ENYMNLA SVGKSNITLLGMVACTCS
16466	46834	A	16563	165	457	
16467	46835	A	16564	310	349	K*TMK*EMGKFK*FY/YLEQED YANANALLSPAPALPKEKRTDS NGRVYFVNHNTRITQWEDPPRS QQQLNEKLPPEGWEMRFTVDG IPYFVDHNRRRTTTYIDPWSTRP
16468	46836	A	16565	1	2217	
16469	46837	A	16566	1402	1860	
16470	46838	A	16567	461	696	KRMCFCTLS SARSSSGSMYMSC RICCSMPFPSSVFRSISRYSR AAFWAWTETRLCWQAAMP RQ QPPGLLHQWTTSP
16471	46839	A	16568	1	601	
16472	46840	A	16569	468	1213	
16473	46841	A	16570	2	365	EGCFQKIKLDHILSPPPMPFWK CSNPDVAFGPGKSLKYKRQLS* DGRQLRRGSLGALTGRVLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPLSTASLPCVSKCW ENIPPMWNCPPIK
16474	46842	C	16571	220	408	
16475	46843	A	16572	840	1091	QSLQHDVTL*VPVLLSYPEPAPS GHGLLRGSQAIAL*TI PADPAGT YLKTR EPTLGQCTVPLPAPHLS VDTVCRCLSSSVWPQ
16476	46844	A	16573	1	1356	
16477	46845	B	16574	1	1084	
16478	46846	A	16575	2	526	QPRGKKFSKKNKPRKQNFPTPKH MRVVLPPF/PPLKFFIFPKGLKFL EGGCPNISPPQKKGSLPKIPR*V LIRPPIRKKLFPCTARVKLGPPQ GSFKTAAPSSSP*SADPVYLAG K/PRQSSSPGGTGGLNPPRRRLQ PQPHPGPSWHSSSRGPGGHP R RESAERSRCASGNPGGQ
16479	46847	A	16576	36	167	RQLFENTQSDETKQEQNKQNK K*STATESRKVPQIGKSKSYWP
16480	46848	A	16577	171	527	
16481	46849	B	16578	1	471	
16482	46850	A	16579	1	294	
16483	46851	A	16580	185	299	GLQYLKKGSLKVKRKGKVV*S ACCKKKGAALGTVASPL
16484	46852	A	16581	3	414	

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16485	46853	A	16582	462	928	WGVPGLPGRHLLPLSPQPPPSW LSILYVSWAALTCFLNSGESTA AKFFCPNLSAISYHTEAIPTTWQ GVHLSWAFNGGAPDIFSGPGGL L*PA/PQP/DLALGALFGAGVLV ITTVAGGGITLLLFQHHHTQEI H*QIVQWIKTIL*ILATVSVVIG
16486	46854	A	16583	1	654	
16487	46855	A	16584	66	323	RVSLEIHVIQKRRPHHLSLSFW TRMKTFRRRK/WGEAEESATDT TSETNKVGTGVFVLSLVVVPV VRNLGPGVVLGNICKHFPVC
16488	46856	A	16585	1	1530	
16489	46857	A	16586	615	873	FVFLWSLMMVMYRWGFGVAV LSVC*FSF*QSGPSAAGLLEFAG GPFQTPFAWVSVEAAEQRIML NSKRCCVIVPLVVSQRGTRP
16490	46858	A	16587	286	626	PCKLFPCNCTCYSRV*DFFRVA GKRSLNNNTYSWVNTSMLVPR VAFACGFPQLQAAVLCVHLLG SPILGAADSSVTPPFCWMANAH ICGLQLQNTLSFAEPIVLGQEH QLS
16491	46859	A	16588	226	489	PYLSVIFFFDYGINEEQCQRPIQ GDGQNFHRHNGWIKINPSCISF AIFFPFGAEKNMWSTPVEAFN LLST*AF*LFGYKCTLVISS
16492	46860	A	16589	1	1344	
16493	46861	A	16590	1	257	
16494	46862	A	16591	73	374	ESETEHKRPGKHSKPRSCNMCG QWAFHASLTVSYCLLTWCNET CSGDGCEGGMRIDIDPPVSQTR FFITLL*LCFPGAGQPAYFCTQ TQCHVETPRVSQ
16495	46863	A	16592	1	666	
16496	46864	A	16593	95	1840	
16497	46865	A	16594	1740	2026	
16498	46866	A	16595	39	487	SRLDPRVRLFRQFCETPRGLEC YIQFLDSVAEYVTPDEKLGEK GKEIMTKYLTPKSPVFIAQVGQ DLVSQTEEKLLQKPKELFSAC AQSVEHYLRGEFFHEYLDMSFF DRFLQWKWLE/RVCACQVRAT GKMYACSRLEKKRIQKRK
16499	46867	A	16596	1	591	

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16500	46868	A	16597	71	1994	EQEQRGRQGGLLAPPAPAAAA AARAAAAAAPPQALTAPPAG SVADRRRLSMELINIVANTVLLK AREGGGGKRGKSKKWKELK FPHISQCELSLRTIDRDYCRVC DKQPIGARLLFRQFCETRVPGLEC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTTPKSPVFAQVGG DLVSQTEEKLLQKPKCKELFSAC AQSVHEYLRGEFPHEYLDMSMFF DRFLQWKWLERQPVTKNTFRQ YRVLGKGGFGEVCACQVRATG KMYACKRLEKKRIKKRKGESM ALNEKQILEKVNSQFVVNLA AYETKDALCLVLTIMNGGDLK FHIYNMGNGPFEEERALFYAAE ILCGLEDLHRENTVYRDLKPEN ILLDDYGHIRISDLGLAVKIPEG DLIRGRVGTGYMAPEVLNNQ RYGLSPDYWGLGCLYEMIEGQ SPFRGRKEKVKREEVDRRVLET EEVYSHKFSEEEKSICKMLLTK DAKQRLGCGEEGAEEVKRHPF FRNMNFKRLEAGMLDPPFVDP PRAVYCKDVLIDIEQFSTVKGVN LDHTDDDFYSKFSTGSVSIPWQ NEMIETECFKELNVFGPNGTLP PDLNRNHPPPPKKGLLQRLFK RQHQNNSKSSPSKTSFNHHNS
16501	46869	A	16598	1	963	
16502	46870	A	16599	192	609	RPKGARELRLHPGPRYGRSTSPQ NCPWARPGCLHEAL*GWKICL HCKCPQEEHMTVMPLMEKKT ISKLMFDFQRNSTDDDSGCAL EEYAWVPGLKPEQVHQYYS LPEEKVPYVNSPGEKLRKQLL HQLPPHDNEV
16503	46871	A	16600	1	915	
16504	46872	B	16601	30	820	
16505	46873	A	16602	99	248	RLEKHINCSRVI*SWAASPGLTA AAYRVTLNPPGTFLGVAKVG QYTFT
16506	46874	A	16603	1	717	
16507	46875	A	16604	271	556	TAACLQSHHFSSGQLSFERKW PKVGVTITRSIASLLSGPVGLIHH LAFSAHVPREGPTTPWNYFPRV AAP/RRWTPGEHARTTTGLGAA PCVLLWA
16508	46876	C	16605	135	341	
16509	46877	A	16606	125	226	
16510	46878	A	16607	194	547	

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16511	46879	A	16608	2073	2338	
16512	46880	A	16609	1127	1282	
16513	46881	C	16610	1	2094	
16514	46882	A	16611	523	706	QHPLPNPCCHQPFHLCRLRR*TL HCLRRQ*WPPLRQLPGKIMLIL LRSHPOHPCLLLDLQLD
16515	46883	B	16612	190	805	
16516	46884	B	16613	90	2812	
16517	46885	A	16614	44	216	RCRRRLIPHPRRLSPVVRIRIQVP Q/VQPGAGPSRPGHTRDP/IGAA AAHCPGPGDSGAH
16518	46886	A	16615	1	1107	MTEEPLQALVLSAVLLYQEAY VRRSLTALGLDTFANFAHFSEM QPLSDAPCGLVTGVTRPLVAYS VEVGFTIICGLSLASGNISGWC QLYLLLTQCRGAATLWDSGM GGGRQSSRQTSVPRWTLDSKCI PGPKLTTRPQMDTKALGGQQA HVEHQTHEDIRPQVDTPAGG HKALGEGQDPVGHQASVGYSP QVPQDSLGQALAGQATPEIPLG LQLHTVLVQEIQLIEAQTAP GPCAEVRALPAPAAEPEPAWEE APPERALELEGAPAKDQTNEEL PEITA/PYC/EPLALTLELKAWE RKVGGGRGDQHSPPSQLPCCP*S WARWQTCRQRAGHLAWPPVP RCREASLIH*NHSPAAAGPFILL
16519	46887	A	16616	1	792	
16520	46888	A	16617	1	963	
16521	46889	A	16618	1	378	
16522	46890	A	16619	1	494	MKPRTLAVSVTVLKGGSVRVC SFWCSDVFRVSSFVWVRGLAD SGVKLRTFAVSVTPLKAARLEL FVPPGGFVVSLSAGVKLQPFV SVTAHKGSDPKSEKQDQLQ RGKEQSYHTGEGHPSRLP/PAG SGSLLLSYLAAPTSC*LVQPSG LF*QGADWCINYP
16523	46891	A	16620	137	262	

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16524	46892	A	16621	1	2786	EVSLREATQRKLRRFSELRGKL VARGEFWDIVAITAADEKQELA YNQQLSEKLRKRELPLGVQYH VFVDPAGAKIGNGGSTLCALQC LEKLYGDKWNSFTILLIHSDEW KKKVSESYVITERLEDDLPIKE KELTELNRNIFGDEAFSKVNLN YRTENGLSLLHLCCICGGKKSH IRTLMLKGWRPSRLTRNGFTAL HLAVYKDNAELITSLHSGADI QQVGYGGLTALHIAITAGHLEA ADVLLQHGANGVN
16525	46893	A	16622	174	722	
16526	46894	A	16623	1	1554	
16527	46895	A	16624	1	843	
16528	46896	A	16625	2	745	ECWDGEHDIETPYGLLHVVRIG SPKGNRPAILTYHDVGLNHLKLC FNFTFNEDMQEITKHFFVCHV DAPGQQVGASQFPQGYQFSPM EQLAAMLPSVVQHFGFKYVIGI GVGAGAYVLAKEFALIFPDLVEG LVLVNDIPNGKGWIDWAATKL SGLTSTLPDTPVLSHLFSQEELVN NTEL VQSYRQQIGNVVNQANL QLFWNMYNSRRDLINRPGTV PNAKTLRCPVMLVVGDNAPAE DGVVECNKS
16529	46897	A	16626	3	949	
16530	46898	A	16627	1	633	
16531	46899	A	16628	2	1324	
16532	46900	A	16631	1	591	
16533	46901	A	16632	138	832	
16534	46902	A	16633	55	586	IFVHPTPAASTMPKFDPEIKV VYLRCCTGGEVGATSAAPKIGP LGLSPKKVGDDIAKATGDWKG LRITVKLTIQNRQAQIEVPSAS ALIIKALK/EPDRDRKKQKNIKH SGNITFDEIVNIARQMRHRSRLAR ELSGTIKELGTASVGCNVVDG RHPHDIIDDINSAGAVECPAS
16535	46903	A	16634	1	735	
16536	46904	A	16636	3	346	
16537	46905	A	16637	57	649	GPRRAYGGRMAGGGDLSTRR LNECISPVANEMNHLPAHSHDL QRMFTEDQGVDDRLLYDIVFK HFQRNKVEISNAIKTFPFLEG LRDRDLITNKMFDSDQSCRNL VPVQRVVYNVLSLEKTFNLPV LEALFSDVNMQEYPDLIHYYKG FENVIHDKLPLQSEEEKEREERS GLQLSLEQGTGENSFRSLTWPP

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16538	46906	A	16638	1	1665	
16539	46907	A	16639	348	1534	
16540	46908	A	16640	1	627	
16541	46909	A	16641	1	1343	
16542	46910	A	16642	76	479	IRAVSRSRERPGSRRLYLQAC*G GGAFPGP*SAEISRLVRSHNLGG YSCT/EGGGGCRKGSCLLQHS LL.WHSCLLPASKNTVCSKDLG GCSCQTQESRAPACSWSPRTQGG SASSHDGLGSCRNAWETPSRQLG RSW
16543	46911	A	16643	130	675	
16544	46912	C	16644	118	420	
16545	46913	A	16645	1	987	
16546	46914	A	16646	1	494	
16547	46915	A	16647	360	1510	
16548	46916	A	16648	375	2187	VTAAAAATAMAESGESGGPPG SQDSAAGAEAGAGAPAAAASAE PKIMKVTVKTPKEKEEFAPVEN SSVQQFKEEISKRFSHTDQLV LIFAIAGKILKDQDTLSQGHIDG LTVHLVIKTQNRQPDHSAQQTN TAGSNVTTSTPNSNSTSGSATS NPFGLGGLGGLAGLSSGLNTT NFSLEQSQMQRLLSNPMMV QIMENPFVQSMLSNPDLMRQLI MANPQMQLIQRNPEISHMLN NPDIMRQTLLEARNPAMMQEM MRNQDRALSNLESIPGGYNALR RMYTDIQEPMLSAAQEFGGN PFASLVNTSSGEGSQPSRTENR DPLPNPWAPQTSQSSASSGTA STVGGTTGSTASGTSGQSTTAP NLVPGVGASMFNTPGMQSLLQ QITENPQLMQNMLSAPYMRSM MQSLSQNPDLAAQMMLNNPLF AGNPQLQEQRQQLPTFLQQM QNPDTLSAMSNPRAMQALLQI QQGLQTLATEAPGLIPGFTPLG GALGSTGGSSGTNGSNATPSEN TSPTAGTTPEGHQQFIQQMLQA LAGVNPQLQNPVRFQQGLEQ LSAMGFLNREANLQALITGG DINAAIERLLGSQHHSISVS
16549	46917	A	16649	269	440	
16550	46918	A	16650	469	746	RLNLPGLPCAGTSILFAVLMEAI GVSCIRQAGGGHVASHIY*GLM /PALAL*DTPEPRNPALPETCLC GSGPQSQMGHQTSHLLSSPGTG LSF
16551	46919	A	16651	1	1026	

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16552	46920	A	16652	719	906	
16553	46921	B	16653	1	1971	
16554	46922	A	16654	200	239	
16555	46923	A	16655	109	177	
16556	46924	A	16656	1	1542	
16557	46925	A	16657	1	453	
16558	46926	A	16658	2	487	
16559	46927	A	16659	1	1260	MEDAEGTVTLAVTLVARDLN CIQPQTGPSGGIPEESIVIGDVSS MHVIAPEDLVPGQDVEVEDSDI DDPDPVRALPLQIHACGRVGF AHDWSEGGDPAADTLIDPSQ DARYLKCEGMQAPHNSNPVAQ KTEISYHIWIARIPREKSGKVTG TLCDLLKDLTVIHSLIPKQGCSD GLGVLVQGTFPQPGNTDCTC QVSAVEGKGEGMLQLASLRR VTIWAYGDSQERDLKTQLEKIT AIKDMKEMQEKEYRIMEKAHS RQRKQHHKGPKEKQAAIFAV LQPLVITRQTGSGVDPOKTPA DLQKRCRTVRRKTSQKQAVAS TLTKRITTQKLNKADHNSSPTR EQNCTENEFDELTEVGFRRWVI TNSSELKEHVLTCQKEAKNFDK RLEELLIQITSLEKNISDLMEL*S FALSFCVVILFVNVDATAFCWL VFLLTVRHLFCRSAGVFWGSTP DPVCLVITSGGCRTAKIAACSFL SGPLWCCFLCLEWAFSILYSFS CISFMSLIAVIFSNVWLRLSL
16560	46928	A	16660	1	799	
16561	46929	A	16661	1	969	MHVIAPEDLVPGQDVEVEDNDI DDPGQAKKTMEEQWTLVSLLS TSQQQGPVPPGSTASSATDKLS RWELTLLYSTTLFLAREAFRRA CLSGGTQRDWSQTLNLLWLT PLGVFWSLFLGWLWLQLEVPD PNVVPHYATGVVFLGLSAVVE LLGEPFWLQAQAHMFVKLKI AESLSVILKSVLTAFLVLWLP WGLYIFSLAQLFYTTVLGLCYV IYFTKLLGSPSTKLQTLPSRIT DLLPNITRNGAFINWEEAKLAW GFFKQFFLKQILTEGGRYVGG HFLNVLNFGDQGVYDIMNLI SLVARLIFQPIESFIYS
16562	46930	A	16662	1	1665	

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16563	46931	A	16663	1	1521	MDVSSPPCVDGVSILPPLLIPRQ TGSQVLDLQQNPDTDLQLRVLT KRKTNKKQKQHPHNSICTSPSS KTKEYTFFSVQHHYTSKIDHIV GSKAVLSKRRKTIEIITNCLPDHS AIKLELRKKLTQNHKTWQKN NLLNDYVWHNMKAIEIKMFF ETNKNKDTYKNLWDTVKAV CRGKFIALNAHKRQKERSKIDT LTSQLEKELEKEQTHSKASRRQ EITKIRAELEKIEETQKTQVQIHES RSWFFKINKIDRPLAGLIKKRR EKSQKDAIKNDKLDITTDPTET QTTIRDYHKHLYAIKENLEEM DKFLDTYTLPLNQESLNRPIGT SEIEAIINSLPTKKKYRTRRIHSR ILSEVQGGAVLEVLAIRQEK EIKCIQLGKEEVKLSLFADDMMIV YLENPTVSAQNLLKLSNFSKVS RYKINVQKSAFLYTNRRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLEIKED/N KWKSI PCPRIGRINIM
16564	46932	A	16664	2	2315	
16565	46933	A	16665	1	912	
16566	46934	A	16666	1	912	
16567	46935	B	16667	199	619	
16568	46936	B	16668	64	1815	
16569	46937	A	16669	1	239	
16570	46938	A	16670	1	242	FREDGKTACGHEPSPVLLGLRL GLQPWG*GWGCSHGAGSAPDL VAGSAHSCGLWLPGLHHHPA QCLPALLCGHLCLSVQDQQNG LLGR
16571	46939	A	16671	58	505	ASSRTRPSTLARGRRWFPQPL SGRQRQRGGRRGSRVG/YGTA QNSTLTSPAASASEATVSGHW PSTAPCCVPAGAGSATMWRSP A*AACGSAAWTSTWSRRSPGP GAAAGYGGVRTFCQPAGLTR/L ANRSTAGLCGWGLTLSCRETEL
16572	46940	A	16672	242	2952	
16573	46941	B	16673	474	2690	
16574	46942	A	16674	97	451	
16575	46943	A	16675	667	893	

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16576	46944	A	16676	3	639	RIRVHPTPAAFMPKFDPNKIG VGYLRCCTGGEVGATSAAPKIG PLGLSPKVGDDIAKATGDWK GLRITVKLTIHNRQAQIEVAPSA SALIHKALKEPPDRKKLKLKL SGNITFDENGNCSTDMR/HRSL SRELSGTTKEILGTAQSVGCNV DGRHPHDHDDINSENDKQPRKS KMRTSFSQIPGHEHFHYLLLL QHVHCQLALTL
16577	46945	A	16677	350	984	VYLEVAPGGESRLPLSALGPQR IGPPGSCLPKKSWNIDICQRP G/DWKG*GLQVKLTHSRGTGQ APDCTRV/VLPSCP*FIQSPSRE PPKRPEKKPEKTFKHQLGIFTL NEICSTLLRQMR/HRSLSPKLS/ GTPLKEIPGGLPQSSWAGNV*W AAIPHDHDDIQQVWLWKCFAV SDIFIVTVGVKGGPPSVFTEISW EVL.EMVTGGVG
16578	46946	A	16678	252	964	
16579	46947	A	16679	1	182	
16580	46948	A	16680	275	639	
16581	46949	A	16681	376	418	
16582	46950	A	16682	1135	1591	
16583	46951	A	16683	3	420	AAKEIEVGGGRKAKFSQKIQV RLVRELEKKFSGKHVVFIAQRR ILPKPTRKSRTKNKQKRPRRTL TAVHDAILEDLVFPSEIVGKRIR VKLDGSRLIKVHLDKAQQNNV EHKVETFSGVYKLTGKDVNF EFPEFQL
16584	46952	A	16684	1	879	
16585	46953	A	16685	2	691	HEEKAMFSSSAKIVKPNGEKP DEFESGHLPLGLELE/MNSD/L KASAQGT*ITAS*RLKLVGGCS ESLFH*SFVPRSLKLKTFPQKNP KVRA*LRRIKKKVPVGKAMS VLYPPSEGEFLPLSPTSEKARTK K*AKSRPPGARTLDKLVHDAH PLRDFGPFPSGNFWAKRIPRSL DGQPGSIKVPFWTKAQQNQCW NTRVETFFLVSYK/LTGQGC*F LEFPRVFN

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16586	46954	A	16686	1	452	TLLVIPRKMRSVELQQTSTDL QLRDLTVRKKTNKRKATASTS QKGLHQNPICRSPTSKTKEVG FRRSVITNFSLEKEDVRTYHKE AKNLENRLDEWLTRINSVEKTL NDLKLKTMARDLHDACTSFN RRFDQVEERVTVTEDQIN*QTE SNSINFTKRSSTPKPHL/RSPTSK TKEVGFRRSVITNFSLEKEDVR TYHKEAKNLENRLDEWLTRINS VEKTLNDLKLKTMARDLHDA CTSFNRRFDQVEERVTVTEDQI
16587	46955	A	16687	1	618	
16588	46956	A	16688	280	353	SCNSIFARSVRACCS*VASSSFC C
16589	46957	A	16689	1	459	IKYSSPMKSTFVDPVDPVAVAV IYCLAAGLVIRPFQVLVPLKEE KMLVLLNMDYYEMASLSLVTH RNEAPFSGRVRSSLPATEQSWM ENDFDKLTVEVGFRRSVITNFS LEKHLVTHHKEAKNLEKRLDKW QTRINSVEKTLNDLMELKTM* EEKMVLNMDYYEMASLSLV HRNEAPFSGRVRSSLPATEQSW MENDFDKLTVEVGFRRSVITNFS ELKEHVLTHHKEAKNLEKRLD KWQTRINSVEKTLNDLMELKT
16590	46958	A	16690	2	403	LALSGEMTLVLFMLLAGGWVT HDKPEPMPRAATSGGTRKGKT KAALKDLIATWKEVCVSSPATE QSWMENDFDELTEVGFRRSVIT NFFKLKEYVLTHHKEAKNLEK MLDEWLTRINSVEKTLNDLME LKNMA*ELTEVGFRRSVITNFF KLKEYVLTHHKEAKNLEKMLD EWLTRINSVEKTLNDLMELKN
16591	46959	A	16691	1	676	
16592	46960	A	16692	1	1965	
16593	46961	C	16693	1	3075	
16594	46962	A	16694	78	152	CAAGFGLPVFY*GFLHRCSLGIL V
16595	46963	B	16695	1	904	

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16596	46964	A	16696	1	2026	EQEASYGRDAFAKAIYERLFC WVTRINDIIEVKNYDITTHGKN TVIGVLDIYGFEIFDNNSEQFCI NYCNEKLQQLFIQLVLKQEQQE YQREGIPWKHIDYFNNQIIVDL VEQQHKGIIAILDDACMNVGK VTDEMFLEALNSKLGKHAHFSS RKLCSADKILEFDRDFRIRHYA GDVVYSVIGFIDKNKDTLFDQF KRLMYNSSNPVLKNMWPEGKL SITEVTRRPLTAATLFKNSMIAL VDNLASKEPYVRCIKPNDKKS PQIFDDERCRHQVEYLGLENV RVRRAGFAFRQTYEKLHRYK MISEFTWPNHDLPSDKEAVKKL IERCGFQDDVAYGKTKIFIRTPR TLFTLEELRAQMLIRIVLFLQKV WRGTLARMRYKRTKAALTIIR YYRRYKVKSYIHEVARRFHGV KTMRDYKGKHWKSPPKVLR FEEALQTIFNRWRASQLIKSIPA SDLPQVRAKVA AVEMLKGQRA DLGLQRAWEGNYLASKPDTPQ TSGTFVPVANELKRKDKYMN VLFSCHVVRKVNRFKVEDRAIFV TDRHLYKMDPTKQYKVMKTIP LLQLTCLNWSNGKDQLVVFHT KDNKDLIVCLFSKQPTHESTRIGE LVGVLVNHFSEKRHLQVNV TNPVQCSLHGKKCTVSVETRL NQPQPDFTKNRSGFILSVPGN
16597	46965	A	16697	1	1665	
16598	46966	A	16698	1727	1908	FLFFYIC*RELYFQLCGQFVWNK CNVLLRRMYILLIWGGFEFCRYQ LGLLGAELNSVPGYHC
16599	46967	A	16699	1	384	
16600	46968	A	16700	1	636	
16601	46969	A	16701	1744	2283	
16602	46970	A	16702	194	368	
16603	46971	C	16703	62	205	
16604	46972	B	16704	1	1257	
16605	46973	A	16705	1	1077	

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16606	46974	A	16706	1213	1228	AQN*QTQRTSTPKPHLSSPSTK TKENDFDELREEGFRRSVITNFS KLKEDVRTHRKEAKNLEKRLD EWLTRINSVEKTLNDLMELKT MAQELRDTYTSFSSRFQVEER VSVIEDQMNDMKREEKFREL/K RVQRNEQSLQEIWDYVVKRTNL RLIGVPEKIQTIREYYKHLNAN KLENLEEMDKFLDTYTCPRLN QEEVESLNRPVGTGSEIEAIINSLP TKKVQDQADSQPNSTRVFKTV CISSLGHTTASADTDVQCQLPV TSLLEQGLSSKSAGFLDYAVQR LWLLGTEPL
16607	46975	A	16707	33	263	
16608	46976	A	16708	204	1756	
16609	46977	A	16709	760	821	TMRTGHGRKGN*QR/**PEST KNSNKFTRKNQTTPSKREWMK LETILSKLSQGQKSKHRMFSLI SGN*TMRTGHGRKGNITHWGL LWG
16610	46978	A	16710	1	879	
16611	46979	A	16711	311	514	KNAHHQWPSKKCKSKLQ*DTIS HQLQWQSLKSKQETTGTMRKME TITLSKLSQGQKSKHCMFSLIGG N
16612	46980	A	16712	24	1268	AGLCAARARMRLFRWLLKQPV PKQIERYSRFSPLSIKQFLDFG RDNACEKTSYMFRLKELPVRL ANTMREVNLLPDNLLNRPSVG LVQSWDMQSFLELL*YENKSP DPQVLDNLFQVLKVRDRHND VVPTMAQGVIEYKEKFGDFPI STNIQYFLDRFYTNRISFRMLN QHTLLFGGDTNPVHPKHIGSIDP TCNVADVVKDAYETAKMLCE QYYLVAPELEVVEFNAPADKP IQVYVYPSHLFHMFLFELKNSM RATVELYEDRKEGYPAVKTLV TLGKEDLSIKISDLGGGVPLRKI DRLFNYMYSTAPRPSLEPTRA PLAGFGYGLPISRLYARYFQGD LKLYSMEGVGTDAVIYKALSS ESFERLPVFNKSAWRHYKTTPE ADDWSNPSPSEPRDASKYKAKQ
16613	46981	A	16713	175	465	
16614	46982	A	16714	240	381	FFLSFPLQCQS*NQNLLPW/ICA KVCSTPEVSKTTNPLEGRNSG HI
16615	46983	A	16715	268	1524	
16616	46984	A	16716	1	378	

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16617	46985	A	16717	708	987	IQLPGHRSQQQVAGASHTDARQ QDPGNSHSDFVRIHSHLPCLER QDRRSAGHNGSATVPGTEACG RAYKAPAGHYHSGAGQSLPAA SHRSFSSP
16618	46986	A	16718	1	2052	
16619	46987	B	16719	1	606	
16620	46988	A	16720	1	541	QHQRKQKRQLRAQONLSWEEI AKEYQNEEDSLGGSRVVCDI NKEMLKVGKQKALAQQYRAG LAWVLGDAEELPFDDDKFDIYT IAFGIRNVTHIDQALQEAHRVL KPGGRFLCLEFSQVNNPLISRLY DLYSFVRVPLVGEVIAGDWKSY QYLVE/SIRRFPSQE/KFKD/MIE DAGFHKVTYESLTSGVVAIHSG FKL*FLCLEFSQVNNPLISRLYD LYSFQGHPCGRGHRWRLEVL VPCREVSEGFRLRKEFKDHDRR CRLSTR
16621	46989	A	16721	526	933	
16622	46990	A	16722	191	468	
16623	46991	A	16723	2	677	GKVVHLERRGFHRTMEHLQKI LLPLVLSSSSDP/STLSVSALV RMFSSADE*SVSEASSSEPSFS RRSSCSFGSEPSFASFSSFPDL ASLSSVFLFRAFSSSHVM*WL PSSS*VGS/STSARAQLPSYVPSF SVKTKSGLKSALRFFPKAFCL PSTMGPSSSSPESDSALHRLV ILDVWLQIKPRVRKPCRRSHF RKRAQPAVRPLTFRSLLVLR
16624	46992	A	16724	31	187	
16625	46993	A	16725	215	947	
16626	46994	A	16726	1	378	
16627	46995	A	16727	2	7567	GGGGARRQRGDAGGAETAP SEIHLSPAAERSGRSETLRRGT AAGRMATVVVEATE/PEPSGSI ANPAASTSPSLSHRFLDSKFYLL VVVGEIVTEEHLRRAIGSIELGI RSWDTNLIECNLDQELKLFVSR HSARFSPVEVPGIKILHHRSERF *ETVVLIQ/PFLMEGSSGTEVRL MITDAARHKLLVLTGQCFCENT GELLQSGSFQNFIEFTDQEI GELLSTTHPANKASLTLFCPEE
16628	46996	A	16728	101	365	VITGQPNPTNPNLQATPDIQGT ARLGA/LHPRGIIFIGHQSA/R PHAPAPANPNKRTLFRPPPLSPP SPEPPSGQGAGLGARPALP

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16629	46997	A	16729	1170	2847	VASC*ENACKQNQRQKPCDYLNRCRKGWLQNSTTLHAKNSQ*TVLYKTIKFQLEKTTLKFIWNQKRAHIAKSILSQKNKAVGITLPDFKLYYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNHLIFDKPDKNKKWGKDSLFNKWCWQNWLAICRKLKLDPFPTPYTKINSRWIKDLHVRPKTIKTLLEENLGNTIQDIGTGKDFMSKTPKAMATKDKIDKWDLJKLKSFACTAKE TTRVNRQPTKWEKIEFTT
16630	46998	A	16730	79	536	
16631	46999	A	16731	232	771	
16632	47000	A	16732	3	339	
16633	47001	A	16733	279	416	
16634	47002	A	16734	1	1760	
16635	47003	A	16735	309	1718	
16636	47004	A	16736	10	417	IAIMNDTVAIRTRKFMNRLLE RKQMVIDVLHPGKATVPKTEILEKLAQMYK TTPDVIFVFGFRTHCGGGKTTGFGMIYDSLDAEK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
16637	47005	A	16737	96	609	EKFMTNRLTSGETKWWI*CPFT PGRRTVP*AQKIRIEKLAQNVQ RPHPDVIFVFGFRTHFGGGKTTGFGMIYDSLADYAEKEMNPKHRLA/RHGPMEEGKRPSKKN GKERKNQN*KRVQGGGLAKGPLLAGAQKEEMKCLGSEIGSQ PKELKVLPMMLAVATVDFSQE
16638	47006	B	16738	1	1041	
16639	47007	A	16739	3	447	VSVPFIFIWLTCKSFLKFDLKSNTNVLQSL/GKFQSEVSKRQKLA TVFSSFTSTGLCQGSVAFISRCP PLASGSDSVWRGGSVFFSFRP*RLMISLLGSCVSHQFPEKLEF**KKMPYKIPTAHHQQQDDQQRG HEHKQSQPDVPHLG
16640	47008	A	16740	1	2385	
16641	47009	A	16741	1	639	
16642	47010	A	16742	1	993	
16643	47011	A	16743	127	426	CTDKITLVFGV*MLTPKPKD/CD DSAV*ELLWLTNQLSACVVHP GLYHLHVRISIWIPYRCLFSTMC GVCQTCTVAMQLDCLADSFNA VFKLTEAAGHMAR

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16644	47012	A	16744	3	374	SLRLQFYVYKISFQTQDQANKLS DSDASHLHPLAPCSEPTRTNVH TKLPRERPQSQIASPYPLPPCPE RLKKQTNNKKKNW*EPSPHILPP RNAAAHTGQSRASKSLPAPPPT VSPRPRPGAGPT
16645	47013	A	16745	16	253	
16646	47014	A	16746	163	588	TFHAVLHIENAGYFNSIPFFRIL NHNPLTTVEDPYLFKLPAKYLY *VL*YSHESRDDLYSF*IFHQRL SILHLG*NVIMKF*LSY*KKVIGE EKN*EDV*WSRQPAGEREQC*R THIDLE/PCRHMEEYYLTCKAK GKRCSLF
16647	47015	A	16747	2	363	GTSQTLRLSLASACIFQPKVRL SREEIPLNLNY*SVSPNSNPNNHL YSRHTILTAMLTQLQGTVCVLLPI GLLVYPYPCPSPTGLQVTPFLPS PCGSGWPASFTYSSNRTTNLL FCVFIL
16648	47016	A	16748	1028	1621	
16649	47017	A	16750	1	112	LGNTWG*QPCRLKIWLSLEFT KINVIRHMKKFKRL
16650	47018	A	16751	91	597	LKNRRRSRPSIRQSIGSTSVSRW LTSFLTLYDHTADVQ*V*REFIP LKPRQ*ED*MFQSWLHAWGDT LEEAFEQCAMAMFGYMTDTGT VEPLQTVVEVETQDDQLQSLFH FLDEWLYKFSADFFIP/GWGEE FSLSKHPQGTVEKAITYSAMQV YNEENPEVFVIIDI
16651	47019	A	16752	226	668	IYFFRLHAWGDTLEEAFEQCA MA/MFGYMTDTGTVEPLQTSRS /KTQGDDLQSLFHFLDEWLYK FSADEFFIPREVKVLSIDQRNFK LRFN/GWGEFSLSKHPQGTVE KAITYSAMQVYNEENPGSFC DHWTEKTTQKIKRLPTGKK
16652	47020	A	16753	3	942	
16653	47021	A	16754	3	419	SLYHNSSQKRHWTFSSSEQLAR LRADANKFRCKAVANGKVLP NDPVFLEPHEMTLCKYVEKRL LEFCSVFKPAMPRSVVLTCAFL ACKVDEFVNSNPQFVGNLRESP LGQEKALEQILEYELLILQQLNF HLIVHN
16654	47022	A	16755	312	537	
16655	47023	B	16756	209	1381	
16656	47024	A	16757	1	927	
16657	47025	A	16758	1	3987	
16658	47026	A	16759	2	175	

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16659	47027	A	16760	2395	2700	
16660	47028	A	16761	2	1118	
16661	47029	A	16762	26	1205	
16662	47030	A	16763	1	1594	
16663	47031	A	16764	1	595	
16664	47032	A	16765	1	1029	
16665	47033	A	16766	1172	1364	
16666	47034	A	16767	253	389	
16667	47035	A	16768	489	855	
16668	47036	A	16769	2	401	
16669	47037	A	16770	415	694	EAKLHLNLCDSMWLCCPTKGK RKQALEVLNILGPFLAPFWIAK SYFFTSPTQVSSL*FLRYKRRIK LQCRPKTCTNPSRTRSCALPGR FIPPF
16670	47038	A	16771	1	765	
16671	47039	B	16772	1	1095	
16672	47040	A	16773	82	311	KANSVDPFGFGVNLLEHLMAC NS/GTNLLNSKRLNNDICLASH TDVSIHARKCCLVVSCLLLRGL SILRSKESHC
16673	47041	A	16774	2	683	
16674	47042	A	16775	1	2703	
16675	47043	A	16776	1	555	DHNSSPAREQ/SSMENKFHELT EVGFRKITSLEKNINDLMELKN TARELREAYTSIKSRIDQAKESI SEIEDQLNEIKCEDKVREKRMK SNKQNFQEIWDYVKRPNLRLT GVPESDRENGTKLENTLQEIHQE NFPNLRQANIQIEIQRTAQR QSSSRATPIHIIVRFKFEIKEKM LRAAREK
16676	47044	A	16777	1	839	
16677	47045	A	16778	1	504	
16678	47046	A	16779	1	2367	
16679	47047	A	16780	1	1566	
16680	47048	A	16781	146	464	VTGWTNYEGNGRWRESRQLC GCCSRKSSSSWGSLMKGSGAP LRPGRMMWSGFRKCSDTQVM YS*R*LLETMTLASIMR*THTK* NALRKCSALKDCFLGKALTL
16681	47049	A	16782	1	1782	
16682	47050	B	16783	221	1075	
16683	47051	A	16784	1	627	
16684	47052	A	16785	1	1539	

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16685	47053	A	16786	1	1318	LSPVLSLSPDSMSFTTRSTFSTN YRSLGSVQAPSYGARPVSSAAS VYAGAGGLATGIAGGLAGMG GIONKETMQSLNDRLASVLDLR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNARIVLQIDNA/RLAAD DFRVKYETELAMRQSVENDIH GLRKVMDDTNITRIQLETEIEAL KEEL/LFMKKNHHEE/EVKGLQA QIASSIGLTVV/DAPKFQDLRQ DSWADIRVAQYDELARKEPRG A*TKYWFSADLRESTTVVTTQ FAEVGAA*DDASQSWRTYS SLGDPWGFWRKS*RASLEN SLREG*RPAYALT/QMEQASTGI LACTFESELGTDPGAEGRQAQ EYVALLNIKVKLEAEI/ATYRRL VLEDGEDFNLDALDSSNSMQT IQKTTTRRIVDGKVVSETNDTK
16686	47054	A	16787	1	253	RVRTLKSTSTCLYWFEKDS/ DHPERSSP*YMSPSHRYGSLVK ASITKPAFLKTSGRFLTCSQFC PLISKISDGFSLPPFST
16687	47055	A	16788	1	276	AAAAGPPGPLVMFTYRERVSG LRSVHILRASHTDARLRQEPT ERLQFHSSGLLIRFSRETEPIGV YIKED*EEWAYKMMVFAKSHD LPFAN
16688	47056	A	16789	1	203	LLHTSTKNELWQ*GKRDPVIVF YTQYLF*EKTRK*NRQAGSL ALGPKPGLRLPGLNPVVENQFI
16689	47057	A	16790	8	361	RGLDGQGGDRDGSSSGGGGGGR RRRCLLLAPAPAVIRASGRGP R*DCWRAGCA*AWRPC/RLAR RMWTLRSLTRSLYVNMSTSGP GGPAAAGGRKENHQVARKR LNVCVFTRSVSETA
16690	47058	A	16791	674	1076	VQLFRSAGSRDHRFLGRGRN KQTKLTLYPTPIPCSLKYQRKQN GSLWLTSRMPSSVFCTLTSPFS LPLRISQTTHPNLRGPSCPKGLG IALISLVRHWLKI*ATSQVQAL WSFSMWMIYFWL/PVQKPHASR
16691	47059	B	16792	296	1470	
16692	47060	A	16793	1	334	
16693	47061	A	16794	718	2541	
16694	47062	A	16795	2	406	
16695	47063	A	16796	74	464	
16696	47064	A	16797	159	610	
16697	47065	A	16798	1	273	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
16698	47066	A	16799	1	543	
16699	47067	B	16800	1	873	
16700	47068	A	16801	1	558	
16701	47069	A	16802	27	136	
16702	47070	A	16803	89	363	
16703	47071	A	16804	579	994	
16704	47072	A	16805	129	362	PKIIQPRRATTRFTSINGWRICPS IPCPEATINRRRCVKVDSVTCH LLTQR*YKSSKVQERC*SCRIQG QKISDCY
16705	47073	A	16806	878	1811	
16706	47074	A	16807	1	843	
16707	47075	C	16808	19	231	
16708	47076	A	16809	1	1650	
16709	47077	A	16810	3	404	
16710	47078	A	16811	279	428	
16711	47079	A	16812	3	507	
16712	47080	A	16813	1	1128	
16713	47081	B	16814	1	567	
16714	47082	A	16815	3	1206	GSEGGAGPGGAAATAAAME DEMPKTLTYVGNLSRDVTEALIL QLFSIQIGCKNCKMIMDTAGN DPYCFVFHEHRHAAAALAAM NGRKIMGKEVKVNWATTPSSQ KKDTSNHHFHVFGDLSQITTE DIKAAAFAPGRISDARVVKDMA TGKSKGYGFVSFFNKWDAENA IQQMGGQWLGGRQIRTNWATR KPPAPKSTYESNTKQLSYDEVV NQSSPSNCTVYCGGVTSGLTEQ LMRQTFSFPGQIMIEIRVFPDKG YISFVRFNS/HMESGRHMAIVSV NGTTIEGHVVVKCYWGKETLID MINPVQQNQIGYPQPYGQWG Q/WYGNAQQIGQYMPNGWQV PIAYGMYGQAWESSQGFNSDT VFLAPWDGDPNFGSCNRLQQQ NGSLLPNRPSGYRVAGYETQ
16715	47083	A	16816	1425	1564	
16716	47084	C	16817	151	339	
16717	47085	A	16818	67	373	FCDCHHIFILMFKSPHIWPVGIFS SWLLCFFWACLHHSLSIALLLSC TKRYSGLILYFLCSSFEITVSSKS SVSF*RRMVFRNQVLGSRACCC C*GVAAPRPPF

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16718	47086	A	16819	1	799	MGPHWLWLHLALVLLPPSALL LPSCEKGVLRVRFYHEKWIYV HKESTKERHGYCTLGEAFNRL DFSSAIQDIRRFNYVVKPLLP KFQRLNAITKDRQRSSSGVQLP HAGQPQAGADPTQDERRQVAGD TPGDPRALAGGQVVDRTYPGS YEASGRPGLQLALAIEDLLRDS AIGCTFCDCRCPVGAQRLLAHS LALAAPGAEKREVVKLLLVAY VRRRPGKNLTTQNCQPAAGYI PPGHQ*AASAHARSWKNQPP PRVLIGSA
16719	47087	B	16820	28	438	
16720	47088	A	16821	366	793	AWVEQSKVLKEGGIQLLLTIV DTPGFGDAVDNSNCWQPGINYI DSKFEDYLNESQVNRQCMPPG NRVHCCLYFIAPSGHGPHLN*R LPPSGRIG*YMFVTTWHCLLLR LKPLDIEFTKHLHEKVNIIPLIAK ADTLMP EEC
16721	47089	C	16822	228	374	
16722	47090	A	16823	291	604	AWELEKSHLRRLDPSHNINIR VEPKF*SKYGGVQLLLTIVDTP RFGDAVDNSNCWQPVINYIDIK FEDYLNESRVNRQCMPPGNRV Q**LYFIAPSGHGPHLN
16723	47091	A	16824	148	498	
16724	47092	A	16825	1	595	DRPRITGGGKSGTEYPENLPTL KATIENKNSVLNTATKMKDVQ TSTPAEQDLEMA\SEGEQKRLE EYENNQPQVK\QIHSRDDLD IIQSSQT\SEGD\SLCCNCKNVI LLIDQHEMKCKDCVHLLKIKNT FCLWKRLLIKLDNHCEQLRVKI RKLKKNASVLQKRISEKEEIKS QLKHEILELEKELCSLRF\IQQE
16725	47093	A	16826	1	828	
16726	47094	A	16827	1	540	
16727	47095	A	16828	295	460	
16728	47096	A	16829	2	1355	
16729	47097	A	16830	650	1184	

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16730	47098	A	16831	725	2368	AVDIIKEIKHPQKHKKLPALQRL PFPLREETIPCNVGFPRCEPCL AEVYMCLEMLKDEKKGCMN KSGAGENPQERTAQKRKFPSP HSSNGHSPQDTSTSPIKKKKK GLLNSNNKEQVKQPLECIETQS KAMTMTLIEQLSYLLKFAIQKM KQPGVRRKLKVPVLEQHPDYA EYIFHPMDLCTLEKVGRLQMY GCTEAFADAKWILHNCIYNG GEWLRTQIAKVVIKICEHEVCV SQVCECYLAACQKRDNWFCE PCVSWIYDSACQPV*WKLVIQ MFLPM/WKADIL/RGEEG*YTSE LIGWL*SLSCDCSAGTSISHPSD SD*RWLTEHEGRRVSWPVNNC YLMSKEIPFVKKTKSIFNSAM QEMEYVYENIRKFGVFNYSPP RTPYTPNSQYQMLLDPTNPSAG TAKIDKQEKVKLNDFMTASPKI LMSKPVLSGGTGRRLSDMPR SPMSTNSSVHTGSDVEQDAEK KATSSHFSASESMDFLDKSTG QLRAGERGGGPLDTGVSHGCT I.GGPKQVSIKQASVQLQDTMN
16731	47099	A	16832	2	164	PSTLRAEAWPP*NGSPVPLASS QASSSRSGPTSCIPRYPVASPE RLPLPTAA
16732	47100	A	16833	51	498	
16733	47101	A	16834	1	531	
16734	47102	C	16835	257	358	
16735	47103	A	16836	63	193	SGRLAPHTSRRTSANCSDDAKS SDSCSPSRKT*WSGRNTNRIH
16736	47104	A	16837	1	834	
16737	47105	A	16838	258	545	CQNPQILASPTKDLMLGRNT NKDTLKACLARVVKRRSECSQ KPAS*MCTERNPTSMREVDLE RKYA VLYQLPFD*AVLKLMLQ FMNLRKEGM
16738	47106	A	16839	66	476	
16739	47107	A	16840	1	1362	
16740	47108	A	16841	1	747	
16741	47109	A	16842	522	687	
16742	47110	A	16843	112	861	
16743	47111	A	16844	87	472	TVTFQCRFGKMLPLEKAFASP QELPSAGSAHAGVSSRSSRK NPRPSLRGPLLTLEFSRLRFREF VYPEAAGPHHTLARLDLCRQ WLMPEARSEQMLELLVLEQF L/SILPDKVRPVVVAQYPS
16744	47112	A	16845	1	393	

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16745	47113	A	16846	621	1099	
16746	47114	A	16847	1	453	
16747	47115	A	16848	209	1175	
16748	47116	A	16849	1	546	
16749	47117	A	16850	187	421	LGESSQ*GSP/PPPTGGCGPATG Q*PLGQSFRKELAAIFAVSQY SLVVP/PGMGTEATGIWSRPPA NGNSPTVEWHIK
16750	47118	A	16851	3	1654	
16751	47119	A	16852	166	465	
16752	47120	A	16853	1	558	
16753	47121	A	16854	51	380	RNNLLLLTHHFVLIQFLIPRKET KYYLVITP/PSLSINVLNSFFYYS PESLNDNTNCHHEADTPWR*F LAIFEGFLNIAHQMQNMPFLL WKQVPETLVIQQQLPRIN
16754	47122	A	16855	3	550	
16755	47123	A	16856	1	462	
16756	47124	B	16857	1	2811	
16757	47125	A	16858	3	514	ASGTAPEIQARPTRPRKRKRK LLPL/TKAEAKAKALKAKKAVL KGVHSHKKKKIRTSPTRRPKT LRLRRQPKYPRKSAPRRNKLDH YAIKFP/TTESAMKIEDNNTL VFIVDV/KANKHQIKQAVKKLY DIDVAKVNTLIRPDGEKKA YVR LAPDYDALDVANKIGII
16758	47126	A	16859	73	396	FFQSP/KNCSCVWWNCAEVL KYKTGETNDFELLKNQLDPDI KRLPWLNRSQTVVEEYLAFLG NLVSAQTVFLRPLCSMIASHFV PPRVIKEGDVDVSDSDDEDD
16759	47127	A	16860	132	357	YVSKFAGRLSSSSSESTSPS LMITRGGTKWGSNHAETRSEE NSLC*YKITKKSQILFYHCFDFY STKAISI
16760	47128	A	16861	380	597	
16761	47129	A	16862	179	280	QRDIKSCVQILQWEGSTRPFTN E**YMANVRNS
16762	47130	A	16863	2	175	
16763	47131	A	16864	178	374	
16764	47132	A	16865	386	2120	
16765	47133	A	16866	887	1104	

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16766	47134	A	16867	1	708	MEVAALEHLDHRLREKVKQQN ALRHQVVLQRRLLEELQLQHS LRLLMAEAQNRHTEVAKTMR NLNRLEKAQMKAEAEHITS VYLQKAYLMDESLNLENRLD SMEAEVVRTKHELEALHVVNQ EALNARDIAKNQLQYLEETLVR ERKKRERYISECKKRAEEKKLE NE/LHGAQADPGSDLNPRADPP RAPAATVRRHHPGPACQGGG AAAALEHVPDGGDLWQGGGR HWH
16767	47135	A	16868	1	1327	
16768	47136	A	16869	1	1776	
16769	47137	A	16870	1	397	
16770	47138	A	16871	1	1974	
16771	47139	A	16872	1	336	
16772	47140	A	16873	3	661	GRGGHNFAPNLTARSVTSGL GGPPAAVMVGS.LNCIVAVSQN MGIGKNGDLPWPPLRNEFRYF QRMTTSSVEGKQNLVIMGKK TWFSIPE/RRNRPFKG*EFNLVL SRELQGNLPQGAHFLSRSLDDA LKLTEQPELANKVGMMVW/IVG GSSNYKESMNHSSSLKLFVTRII QDFESDTFFPEIDLEKYKFLPEY PGVFFDVQEEKGIKYKFVHEK
16773	47141	A	16874	38	755	ALKTCVSNQPDAKDNIAGSSGH LRTLSPVVSRSCLKEEERRRRR RMKRRQRSRRRRSRRRRMRRR RRSRSSRRRMKRRRRRRMKR RSSFILMYFFMLLLSGIPLLYME VIMGQWLHVDNIRVWKQLVP WLCMSY/SSQSVCASVSLYNS THISWNFFYSFAHPLPWDHCLPV KNISVTDWAHQYFLYHTTLHA SDHSEAAEALVPNRSLGCLLG RDHRDLDFKPEIRRGAGTGGAR
16774	47142	A	16875	1	1830	
16775	47143	A	16876	2	1142	
16776	47144	A	16877	1	435	
16777	47145	A	16878	1	963	
16778	47146	B	16879	247	1092	
16779	47147	A	16880	1	1653	
16780	47148	A	16881	1	2268	
16781	47149	A	16882	301	555	
16782	47150	A	16883	1	630	
16783	47151	A	16884	731	834	
16784	47152	A	16885	1	2277	
16785	47153	A	16886	45	2446	
16786	47154	B	16887	625	696	

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16787	47155	A	16888	193	315	WPGGGYSLLCFWCPLSFAGAA G/W*PPPGHH*PYSKQEHYRT NSDTLIFLSSRTLVLQGS*GIKV AGSEGPKYNE*PRNPVLPCLCL HLFGC
16788	47156	A	16889	1	588	
16789	47157	A	16890	2	229	
16790	47158	A	16891	1	502	
16791	47159	A	16892	516	576	
16792	47160	A	16893	144	435	
16793	47161	C	16894	1	996	
16794	47162	A	16895	424	632	
16795	47163	B	16896	446	1944	
16796	47164	C	16897	207	470	
16797	47165	A	16898	1	396	
16798	47166	A	16902	1	585	
16799	47167	A	16903	141	906	
16800	47168	B	16904	99	276	
16801	47169	A	16905	1	756	
16802	47170	A	16906	1	383	
16803	47171	A	16907	1	582	
16804	47172	A	16908	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPRKI LNQKQYRIAGGIEISATIKDLK DAGVVIPTSLFDSPIWVPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGPALFCR* LLSF*ETALGLLGFGGN*TFDY
16805	47173	A	16909	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVFVPPECRIG RDILSSWQNPHTGSLTGRVRAF MVGAKAKWK*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRG VVIPTTSRFNSPIWVPVQKTGDS W*TAADY
16806	47174	A	16910	232	633	
16807	47175	A	16911	1	1677	
16808	47176	A	16912	328	381	LLKLQH*MQSPYLVGPSQ
16809	47177	A	16913	3	811	
16810	47178	A	16914	1	1125	
16811	47179	A	16915	1	1191	
16812	47180	A	16916	113	485	
16813	47181	A	16917	1	357	
16814	47182	A	16918	12	398	
16815	47183	A	16919	498	595	TEMASTTTCT/RFHDEYQLFEEL *KGAFSVNGT
16816	47184	A	16920	5	367	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16817	47185	A	16921	190	2005	VLYPLHLGTGTGKGAGGASSG EEGSEARRRRIGGLWGRRPHA TLSGHLPSRPAPAHTPSRASYFR TRKVRALGDSAAGVPVGLAA RLASGSPRSQPGHSPGPEMAS TTTCTRFTDEYQLFEEALGRGAF SVVRRCKMKTGQGYAAKIINT KKLSARDHQKLEREARICRLK HPNIVRLHDSISEEGFHYLVFDL VTGGELFEDIVAREYYSEADAS HClQQILES VNCHLNGIVHRD LKPENLLASKSGAAVKLADF GLAIEVQGDQQA WFGFAGTPG YLSPEVLRKDPYKPKVDMWAC GVILYILLVGYPPFWDEDQHRL YQQIKAGAYDFSPPEWDTVTPE AKDLINKMLTINPAKRITASEAL KHPWICQRSTVASMHRQETV DCLKKFNARRKLKGAILTTLML ATRNFSAAKSLKKPDGVKEST ESSNTTIEDVDKARKQEIIVT EQLEIAINNGDFEAYTKICDPGL TAFEPEALGNLVEGMDHFRFYF ENALSKSNKPIHTILNPHVHLV GDAAACIAYIRLTQYMDGSGM PKTMQSEETRVWHRRDGKWQ NVHFHRS GSPTVPKPPCIPNGK ENFSGGTSLWQNI
16818	47186	A	16922	1	288	
16819	47187	A	16923	318	458	
16820	47188	A	16924	1	578	
16821	47189	A	16925	803	1068	
16822	47190	A	16926	1	660	
16823	47191	A	16927	2	325	TSENNNNGPKR*IHSTESLYLLQ GSVYADHDYIGLPEIPGAYQA NILVEDATIGIVDNELLTSSKDR ELLEYRNTKISPLIDHSSLEKQ TFSLLDSSNQVLEYLS
16824	47192	A	16928	156	573	
16825	47193	A	16929	405	599	GLEPPQKPLVTSILQANVPVLP CGNSQSR*TSTRCWYEHLCQCTQ SHLQMQQYHEAYQSACALA
16826	47194	B	16930	1	1676	
16827	47195	A	16931	1	1125	
16828	47196	A	16932	27	818	
16829	47197	A	16933	1	4986	
16830	47198	A	16934	1	4401	
16831	47199	A	16935	153	370	SVLETCMSTAFVPVCHSSFKTA VLRISLS*ISAQGGPIDLFSQCHP SSSTGVSSNHRGSWDTPGQSL VVICL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16832	47200	B	16936	47	501	
16833	47201	A	16937	49	1714	
16834	47202	A	16938	1	999	
16835	47203	A	16939	140	2029	FAARAGPGGSRARRGNKWAR MPYEIKKVFASLPQVERGVSKII GGDPKGNFLYTNCKCVILRNI DNPALADIYTEHAHQVVVAKY APSGFYIASGDVSGKLRWDTT QKEHLLKYEYQPFAGKIKDIAW TEDSKRIAVVGEGRKFGAVFL WDSGSSVGEITGHNKVINSDI KQSRPYRLATGSDDNCAFFEG PPFKFKFTIGDHSRFFVNCVRFSP DGNRFATASADGQIYIYDGKTG EKVCALGGSKAIIIDGGIYIISWS PDSHLLSASGDKTSKIWDVSV NSVSTFPFGMSTVLDDQLGCL WQKDHLISVLSGYINYLDRN NPSKPLHVIKGHSKSIQCLTVH KNGGKSIYISGSHGHINYYWD SETGENDSFAGKGHTNQVSRM TVDESQGLISCSMDTTRYTSL MLRDYSGQGVVVKLD/VQPKC/ VAVGPGGYAVVVICGQIVLLK DQRKCFSDNPGYEPEVVAHV PGG/DTVAIGGVDGNVALYSIL GTTLKDEGKLEAKGPVTDVA YSHDGAFLAVCDASKVTVFVS VADGYSENNVFGHHAKIVCL AWSPDNEHFASGGMDMMVYV WTLSDPETRVKIQAHLRHVVS SLAWLDEHTLVTTSHDASVKE
16836	47204	A	16940	31	449	
16837	47205	A	16941	1	53	
16838	47206	A	16942	1	389	GMPTSTIASCSQDGRVFIWTC DASNTWSPKLLHKFNDV VWH VSWITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQDDYFP RRSYRCSHRLIICLNIGNAL
16839	47207	A	16943	1	438	
16840	47208	B	16944	1	1267	
16841	47209	A	16945	635	808	

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16842	47210	A	16946	37	1319	QGEHGHRGLHGFLGRPEQIPSWRSAPLHRLIEWGALAPSLADHSEGSPEVSVINTVDTSHHEYMIYDAQMDYYGHPGQPASSDRSVKIF*CAQWEGRSLFADLQGSWRGPVWQVVGWGTPLLRAITSWAFVASLLTGKFIYSWERGKTGTLGRRATSNAGTRLLKLNFGCCWAPHGLTVLHWSACWVVS DRGPSSLLDFTPEGQWEVKKINNAHTIGCNAVITWAPACCTWKPHRRPHRGQKPNYIKRFASGGC\NDL\IKLWKEEEDGQWKEEQLEIGHSDWVRDVAWAPSIGPAHQHHRPAAPRMGRVSIWTCDDASSNTWSP*IVDKFNDVWVHIVSWSITANILAVL\CGDNK\IPLWKES*WAKWVVPSSDVKQRGFGLPYQPSSDQEGPARNEQVVKDQGGALAPPPAQLPGPAPSPGP
16843	47211	A	16947	1	1021	MSGFIDHSHIARIIPGIFGTDA GSCIDQRGITGKLQPPEDRRLGEGKLTNTKDIHTKTPSVRH HHQRPKVDKTTKIGKKQSRKTGNSKNQSAPPPKCESSSPAMEQSWTENDFDELREEGFRRSNYSELKEEFRTHGKEVKNLEKRLDEWLTRITNAEKS LKDLME LKTKARGLQRVSVMEDEMNMKQEEKFREKRIKRNKQSLQEIWDYVVRPNLRLIGVPESDGENGTKLENTLQDIIQESFPNLARQANIQIQEIQRM PQRDSLRRATPRHIVRFTKVEMKEKMLRAAREKA\HIALIPK LTT*LEVKLSSANVKEQL*QT VFQTTVQSN
16844	47212	A	16948	1	393	
16845	47213	A	16949	1	2631	
16846	47214	A	16950	1	1155	
16847	47215	A	16951	1	1185	
16848	47216	A	16952	1	942	
16849	47217	A	16953	1	615	

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16850	47218	A	16954	474	2678	IKPQRWGGKKQSRKTGNSKNQS ASPPPKERSSSPAMEQSWTEND FDELREDSFRRLVITNYSSELKEE VRTNGKEVKNLEKKLDEWLTR ITNAEKSLKDLMEKMTAQELP DQCTSLSSRCDDLEERVSVMED EMNEMKCEEKFKREKRIKNEQ SLQEIWHYVVKRPNRLIGVPES DGENGTKLENTLQDIQENFPN LARQANIQIEIQRMPPQYSSR RATPRHIIVRFTKVEMKEKMRLR VAREKGQVTHKGKPIRLTADL LAETLQARREWGPIFNILKEKN FQPRISYPAKLSFIDRSTRQKVN KDTQELNSALHQADLDIYRTL HPKSTEYTFFSAPHHTYSKIDHI VGSKALLSKCKRTEITNCLSDH SAIKLELRILKILTRNHSTTWKL NNLLLLNDYVWHNEMKAEIKM FFETNENKDKTYQNLWDTFKT VCRGKFIALNAHKRKQERSKID TLTSQLKGLEKQEQTTHSKASRR QEITKJRAELKERVGRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGRRLRAEDVFPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPLDHIHAEDTLLPFYLG KDDVTYAIKPTCWPGLDIIPSC LALHRIETELMGKFDGKLPDTP HMLRLAIETVAHDYDVIVIDS
16851	47219	A	16955	1	675	
16852	47220	A	16956	1	1032	
16853	47221	A	16957	3	978	HEAKHQMADDAAGSGGGPKA LVGPGMG/NPVAFRRG/GIVIR GPGSRPGGRGRG/GRGARGSK AEDKDWMPVTKLG/RALVKD H*RSKFPWKEIYLFSLPH*RNQR IIDF/LGGLLSKDEGFE*LCVPQ EQDPCPASRTQASRPFAIGGL QMAHVVLGC*VLPRKVA TGHP VGAHLAKLSIVPVRG/GYLGNK VLAKPIHTVP/CKVVTGRCGSVL VRLIPAR/RLGGMVSAPVA/KKL LMMAGIDDCYT/SARG/CTATL GQIWPRATL*LPFLRTYKLP*PP DLWKGRLYLPSFPIKEFTDHLV KDPHIPSSVQDSELQLVATT
16854	47222	B	16958	124	274	

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16855	47223	A	16959	202	2264	KWPKMNPQQQRMAAIGTDKE LSDLLDFSAMFSPVNSGKTRP TTLGSSQFSGSIDERG/GTTTSW GTSQGQPSPSYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSEGSFSLYSRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRLPH DSAALDPLQAKKVRKVPVGLPS SVYAPSPNSDDFNRESYSPSPK PPTSMFASTFFMQDGTHTNSSDL WSSSNGMSQPGFGILGTSTSH MSQSSSYGNLHSHDRLSYPHPS VSPDTINTSLPMSSFHRGTSST SPYVAASHTPPINGSDSILGTRG NAAGSSQTGDALGKALASIYSP DHTSSSFSPNPSTPVGSPSLTG TSQWPRPGGQAPSSPSYENSLH SLQSRMEDRLDRLDDAIHVLRLN HAVGPTSLPAGHSDIHSLGSPS HNAPIGSLNSNYGGSSLVASSR SASVMVGTHREDSVSLNGNHVS LSSTVTTSSDNLNKHKTQENYRG GLQSQSGTVVTTEIKTENKEKD ENLHEPPSSDDMKSDDESSQKD IKVSSRGRGTSSTNEDEDLNPEQ KIEREKERRMANNARERLVR DINEAFKELGRMCQLHLKSEKP QTKLLILHQA VAVILSLEQQVR ERNLNPKAACLKRREEEKVSA VSAEPTTLPGTHPLSETTNP
16856	47224	A	16960	1190	1327	
16857	47225	A	16961	386	554	ATISFRYSQCK*AEQGCDSLEL LFTKIRKSGYWGV*ATISFRYSQ CKALEIHLTAPVVPSALRIWGF QIPGFNQLSFHPSPEKGSFLPC
16858	47226	B	16962	499	915	
16859	47227	A	16963	1	1785	
16860	47228	A	16964	1	3036	
16861	47229	A	16965	2	710	
16862	47230	A	16966	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
16863	47231	A	16967	1	1335	
16864	47232	A	16968	83	426	
16865	47233	A	16969	93	345	APALCLQILLDCXSVNRNTRSF RPREVGIQYKKGGGAAGKGG TGNAPGFLLFKDS*KDPTPLPP PLLL*GQRDH*IQHLHQE
16866	47234	A	16970	1	1302	
16867	47235	A	16971	1	1174	
16868	47236	A	16972	274	1428	

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16869	47237	A	16973	411	629	HCLSHFQNTGPRGDVDFQQUELA FPVLMADIRKEERSHLCRSSRR TWTLDKS*IQGSRLSSKEQGW GWGTSRK
16870	47238	A	16974	618	1552	
16871	47239	A	16975	1	558	
16872	47240	A	16976	1	765	
16873	47241	A	16977	2	418	
16874	47242	A	16978	130	1965	
16875	47243	A	16979	1	1062	
16876	47244	A	16980	1	558	
16877	47245	A	16981	37	676	
16878	47246	A	16982	1	1014	
16879	47247	A	16983	1	2964	
16880	47248	B	16984	259	1751	
16881	47249	A	16985	1	987	
16882	47250	A	16986	1	1047	
16883	47251	A	16987	3	1413	GLHAARGPWVYQAWISITM.ER KEVCYQQLGCFSDKWPAGTL QRPVKLLPWSPEIDITRFLLYT NENPNNFQLITGTEPDITIASNF QLDRKTRFIHGFLLDKAEDSWP SDMCKKMFEVEKVNICVDWR HGSRAMYTQAVQNIIRVVGAET AFLIQALSVKPCLPVWVGVGR EGQGDAARGTALEDVHVIAHS LGAHT/AEEAGRSWGPRGRITD DLGTA*YKVDGMG*ERRGVRF SI*P*GGGV*AGFGGERFR*RKN VGKSTAGWRM/GLDPAGPCFO DEPEEVRLDPSDAVFVDVIHTD SSPIVPSLGFMSQKVGHLDFFP NGGKEMPGCKKNVLSTITDIDG IWEIGIGFVSCNHLRSFEYSSS VLNPDGFLGYPCASYDEFQESK CFPCPAEGCCKMGHYADQFKG KTSAVEQTFFLNTGESGNFTSW RYKVSVTLSQKEKVNIGYIRIAL YGSNENSKQYEIFK
16884	47252	B	16988	95	315	
16885	47253	C	16989	1	780	

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16886	47254	A	16990	2	1426	SGTLDRMLIFWTTITLFLGAAK GKEVCYEDLGCFSDTEPWGGT AIRPLKILPWSPEKIGTRFLLYT NENPNNFQILLLLSDPTIEASNF QMDRKRTRFIHGFIDKGDSEWV TDMCKKLFEEVEVNCIFV\DWK KGSQATY\TQAANNVRV\GAG VAQMLDILLTEYSYPPSKVHLI GHSIGAHVAGEAGSKTPGLSK/ RLQGLDPVEASFESTPEEVR\AD PSDADFV\DIHTDAAPLIPFLGF GTNQMGHLDFFPNGGESMPG CKKNALSQIVLDLDGIWAGTRDF VACNHLRSYKYYLESLNPDGF AAYPCTSYKSFESDKCFPCPDQ GCPQMGHYADKFAGRTSEEQ KFFLNTGEASNFARWRYGVISIT LSGRATGQIKVALFGNKGNTNTH QYSIFRGILKPGSTHSYEFDAKL DVGTIKVKFLWNNNVINPTLP KVGATKITVQKGEKTVYNFCS EDTVREDTLLTLTPC
16887	47255	A	16991	1	1407	
16888	47256	A	16992	954	1663	EPSDPAHAPSVALLHTGNQSK VLPWPNRNPCMRRW*K*KMLKI SWVHEWVTSNWISTAVRSLRV FAPKNVFQ**ALGPSGLWLYC
16889	47257	A	16993	3	242	
16890	47258	A	16994	1	1815	
16891	47259	A	16995	1	375	
16892	47260	A	16996	3	2005	
16893	47261	A	16997	1	651	
16894	47262	A	16998	114	275	
16895	47263	A	16999	1	270	
16896	47264	A	17000	140	876	PPALVVGRRQKSWRMFEQMR NVGKLLKGIDR\YNPENLATLE R\YVETQAKENAYDLEPNLAVP ESCTKFNP\AFQTNGSTAQDSC *KALTNLPH\TDFTL\CKC\MIRP GHIQE\ERPITDFCYLGGPGWE TWPF\SR\AFWESPGMKTVDLLW KV*LG\FEDSV\RKFI\CHVVGIT YQHIDR\WLLAEM\LGDLFGQAS *RCW\MSKYGWSA\DESGQIFIC SPRREHLTPRNIVEKIDFDSVSSI MASSQ

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16897	47265	A	17001	1	777	MSGENVTKVSTFILVGLPTAPG LQYLLFLLTYLFVLVENLAI ILIVWSSTSLHRPMYYFLSSMSF LEIWVYSDITPKMLEGFLQKQ RISFVGCMTQLYFFSSLVCTEC VLLASMGYDRYVAICHPLRYN LACTDFSTAELV/SFILAFILVFP LLATILSYWHITLAVLRIPSATG CWRAFSTCASHLTVVTVFYTA LLFMYVRPQAIDSQSSNKLISA VYTVVTPINPLIYCLRNKEFKD ALKKALGLGQTS
16898	47266	A	17002	2	876	
16899	47267	A	17003	1	894	
16900	47268	A	17004	377	501	
16901	47269	A	17005	3	823	
16902	47270	A	17006	1	874	
16903	47271	C	17007	156	287	
16904	47272	A	17008	1	1140	
16905	47273	A	17009	1299	3135	ISGSVCILLWLQLLPAYNLIHT WEHRHSPPGT/RMSRLAKRNA WEADR/YAEAKLAASRRGQPS LMSSREGGWGEGSQSRNSSHG ALKEAQFIITNAEKS LKDL MEL KTM AQLRDECTSLSSRFQLE EKVSVMEDINEMKQEEKVRE KRIKRNEQSLQEIWDYVKRPNL HLIGVPESDRENGTKLENTLQDI IQENFPNLARQANIQIEIQRM QRYSSRRATPRHIVRFTK VEM KEKMLRAAREKEIQTITREYYK HLYTNKLENLEEMDKFLDTYS LPRLNQEEVESLKRPIGTSEIGAI INSLPTKKSPGPDGFTAIFYQRY KKELVPFLKLFQSTEKERILPN SFYEASIIIPKGRDITTKENFR PISLMNINAKILNKILANQIQHI EKLIHHDQVGFIPGMQGFNIR KSINVIQHINRTEKNHMIISIDA EKAFDKIQPFMLKTLNKL GID GTYLKIVRAIYDKLTANIILNGQ KLEAFPLKTGTRQGCP LSPLLF NIVLEV LARAIQEKEIKGIQLG KEQVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVS GYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIK
16906	47274	C	17010	189	457	
16907	47275	A	17011	2	2600	
16908	47276	A	17012	107	1493	

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16909	47277	A	17013	3	2209	IHTKTPSVCHHHQRPKVDKTTK MGKKQSRNTGNSKNQSTSPPP KECSPAAMEQSWMENDFDEL REEGFRRSNFSELTEVTRHRK EAKNLEKKIRQMVTTRITNVEK SLNDLMELKNMARELRDKCTS FSSRFQLEERVSVIEDQMNM KQEEKFREKRVKRNESLQEI DYVKRPNLRIGIPESDENGT KLENTLQDIHQENFPNLAQAN IQIKEIQRMPQRYSSRAATPRQI IVRFTEVEMREKMLRAAREKG RVTHKGKTIRLTVDLSAETIQ RRESTRQKVNKDQELNSAQHQ ADLTDNYRTLHPKSTEYTLFSA PHIITYSKIDHIVGSKALLSKCK RTEITNCLSDHSAIKLELRKIKL TQNLSTTWKLNLLNDYVWH NEMKAEIKMLFETNENKDTTY QNLWDTFKAVCRGKYIALNAH KRKQERSKIDTLTSQKLEKQ EQSHSKASRRQETIKIRAEKKEI ETQKTLQKINESRDWFEKINKI DRQLARLIKKREKNQIDTIKN VLEFLAKAIRQDKKIGIQLGKE EVKLLFLAEDMIVYLENPIVSA QNLLKLISNFSKVSQYKINVQK SQAFLYTNNRQTESQIMSELPFT IASKRKIKYLGQLTRDMKDLFK ENYKPLLNKIKEDTKKWKNPIC SWVGRINIMKMAILPKVIYRFN AIPKLPMTFFTELEKTTLKF
16910	47278	A	17014	292	699	
16911	47279	A	17015	269	803	ALGPCSEALPTWVNGEEMA QEIDLSALKELEREAILQVLYRD QAVQNTTEERTRAAGN*KHTC SISGKGPKNTDWEHKEKCA RCQQVLGFLHHRGAVCRGCSH RVCAQCRVFLRGTHAWKCTVC FEDRNVIKGTGEWFYEERAKKF PTGDNSVRTSCTGKHETVGGQ LLQSYQK
16912	47280	A	17016	1	1173	
16913	47281	A	17017	349	718	AGPEGTTTAECP/ICQQQRPI LRYGTISWG/DQSATWWQVDY IRTLTLLSWKWSASAKTTIHGLT KCLIHHDIPHSIASD*GTGCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHPCSFN

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16914	47282	A	17018	196	577	GSSGQSESAQPQGLWVLPSTRS LAILSTDVNV*QPCFPAGAHQG QPLAWPVFLAWLSWQKRC* KQQRSSRNLDHRNPGWLHEE GDKTPFFHHFPQLGQSLSQQS LLPAGRR*ARGPQQLPSP
16915	47283	A	17019	1	2523	
16916	47284	A	17020	236	558	
16917	47285	A	17021	1610	2004	VTWSAQMPWAIKNCPTHSPL GGGCLPQPKM*VVQNDPQ*G* WTHCRKGKGGQVGVWPWQ TQNRGKGTFLTPLHSVADAM LYAL*RGSDLDAAQTLPTAAQ DALYAVVPGGEPTGQLQVRHN EFALGQ
16918	47286	A	17022	1	735	
16919	47287	A	17023	88	1871	
16920	47288	A	17024	1	1299	
16921	47289	A	17025	2	260	
16922	47290	A	17026	144	1737	
16923	47291	A	17027	1	1182	
16924	47292	A	17028	262	1132	
16925	47293	A	17029	1	484	
16926	47294	A	17030	3	382	LKGAPDLELDGESRRTWREK GRKRKRALGRVQV*RSRCA* P/STPAALNAPLQGASHSPFLR NCWKGRSVRASSLLRQLAKGG CAARLRSWNLQIVQMYEGHS QQPGLQRLQRWSSQTLRTA
16927	47295	A	17031	1	2022	
16928	47296	A	17032	209	403	
16929	47297	A	17033	213	1993	
16930	47298	A	17034	1	378	
16931	47299	A	17035	64	1180	SASHSGAPATSLYERGVCPAL RRPPAVLVCRAAASCTLLAMS DLQEEGKNAINSPMSPALVDVH PEDTQLEENEERTMIDPTSKEDP KFKELGKVLDDWINDVLAERI IVKQLEEDLYDQVQLKLF/EK NLAGLQSLNVAEVTQSEIGQKQ KLQKVLQLHDLRPRSWALR IWLGNISHGKNLVGNPQLLVSL AMHFRAPIRLPEHVTQVVVV RKREGLLHSHISEELTTITEM MMGRFERDAFDTLFDHAPDKL SVVKKSLITFVNKHLNKLNLV TELETQFADGVYVLLMGLLE DYFVPLHHFYLTPEFDDQVHN VSFAFELMLGRRPSRNPRVLK TWLTWDLKSPLRVLYNLFTKY
16932	47300	A	17036	3	764	

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16933	47301	A	17037	1	1230	
16934	47302	A	17038	1	313	
16935	47303	A	17039	145	263	IFLLYLKKNKVQNK*EIKQHFLG KIMSRDNNNTYLTWGTEN
16936	47304	A	17040	5	982	PTFSRAVATMFSRAGVAGLSA WTLQPQWQVRNMATLKDITR RLKSIKNIQKITKSMKMVA AAK YARAERELKPARIYGLGSLALY EKADIKGPEDKKHLLIGVSSD RGLCGAIHSSIAKQMKSEVATL TAAGKEVMLVGIGDKIRGILYR THSDQFLVAFKEVGRKPPTFGD ASVIALELLNSGYEFDEGSIIFN KFRSISYRTEEKPIFSLNTVAS ADQHGVSMTDIDADVAAKITQ EY/NIWANIILLTLWKESTTSGG RSARG*QPWDNGQARIAFWRM DLNLDIWTFR/TRQAVITKE LIEIISGAASSVKKENSAS
16937	47305	A	17041	1334	1790	
16938	47306	A	17042	1	930	
16939	47307	A	17043	2	477	SGLGRLPGPWQEAGSSRGPSSG DMAGVKALVALSFSGAIGLTF/ LHMLGCALEDYGVYWPFLVLI FHAISSIPHFIAKRVTYDSDATS SACRELAYFFTTGIVVSCI.WISP VILARVALIKWGACGLVLA/G NAVIFPYNSRGSFLYLRGDDDF SWEQW
16940	47308	A	17044	130	434	
16941	47309	A	17045	1	1365	
16942	47310	A	17046	656	839	
16943	47311	B	17047	16	149	

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16944	47312	A	17048	1	1317	MTLNEHAAFKHLFNKAHLAPP LIHLTLSGHSTCFREHRRVGVCIS HFAQDLWPEQGREDSEFQKVLIR RYEKCCHENLQLKIGCTNVDES LTYKRIHTGEKPKCKCEECDKAF SKFSILTKHKVIHTGEKHYKCE ECGKAFTRSSSLIEHKRSHAGE KPYKCEECGKAFAKASTLTAHK TIHAGEKPYKCEECGKAFAFRSS NLMEHKRIHTGEKPKCKCEECG KAFGNFSTLTKHKVIHTGEKPY KCEECGKAFAFWSSSLTEHKRIH AGDKPYKCEECGKTFKWSSTL TKHKIIHTGEKPYKCEECGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECGKAFAFWSSSLSEH KRIHTGEKPYKCEECGKAFAFW VSVLKNKHKIIHAGKKFYKCEE CGKDFNQSSSLTTHKRIHTGVE KPYKCEECGKAFAKASTLTAHK TIHAGEKPYKCEECGKAFAFRSS NLMEHKRIHTGEKPKCKCEECG KAFGNFSTLTKHKVIHTGEKPY KCEECGKAFAFWSSSLTEHKRIH AGDKPYKCEECGKTFKWSSTL TKHKIIHTGEKPYKCEECGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECGKAFAFWSSSLSEH KRIHTGEKPYKCEECGKAFAFW VSVLKNKHKIIHAGKKFYKCEE
16945	47313	A	17049	2	2183	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
16946	47314	A	17050	3	1440	IKVLLGENRVNPTMAVWLAQ WLGKGASLTSFPPTASLLRR LGEHIQQFQESSAQGLGLSLGP GAAALPKVGWLEQLDPFNVS DRRSHLQRYWVNDQHWVGQ DGPFLHLHLTSPPTHTLFTGH PAALAPAWGALVISLEHRFYGL SIPAGGRLALSRLEFNISSSPWIC FGGSYAGSLPSHHAPTFPRAQR IS*HFRIPSSAVRPQVVSRLMS TAIGGSLE/CRRWGLVRGLGG KRGLGCQGRGGPA*VLADIASC FPQCRAAVSVAFAEVERRLRSG GAAQAALRTLSACPLGRAE NQAELLGALQALVGGVVQYD GQTGAPLSVRQLCGLLGGGG NRRGGIYVLCMYIVP*IVLHSLG QKCLSFSAETVAQLRSTEPQL SGVGEAPIYLA PSY PFFPGDTP WHVLSVTQALGSSESTLLIRTG SHCLDMA PERPSDSPSLRLGRQ NIFQQLQTWLKLAKESQIKGEV
16947	47315	B	17051	41	2709	
16948	47316	A	17052	874	1024	
16949	47317	A	17053	1	1602	MDSLWGPAGSHPFVHNSRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRLRDNGGLSPFVP GPGPLQTDLHAQRSEIRYDQSS QTSWTSSCTNRNAISSSYSTGG LPLGKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKV AEKAPGQTLALRNDSSRSEASR PSTRKFLLPHRRGEPLMLPPPV ELGYRVTAEDLDWEKEAAFQC IKSALQVEDKAISDCRPSRPSHT LSLATGAS/DSAQVTSIPAPFP AASMDAGMRRTRPGTSAPAAA AAAPPSTLNRTLGSLLEWMEA LHISGPQPLQQVPRGQNQRSQ TSRTSSCPK/LKCHLELLQLYGR PPGTKAEEAPASSHCQLTLSSSN TVSEDPQAVSSGHTQCEKTAD TAPGQTLGPRGGSRSQSSRPR RHKFPLPRRRGEPLMLPPLEL GYWVTAEDLDREKEAAFQRIN SALQVEDKAISDCRPSRPSHTLS SLATGASGLPAISKAPMDAQQ ERHKS
16950	47318	A	17054	1	1155	

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16951	47319	A	17055	1	1237	MDSLWGPAGSHPFVGHINTRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNRLSPFVP GPGPLQTDLHAQRSEIRYNQTS QISWTSCTNRNAISSYSSMGG LPGLKRRRGPASSHCQLTLSS KTVSEDRPQAVSSGHTQCEKA ADIAPGQTLALRNDSTSEASRP STHKFPLLRRRGEPLMLPPSL EVGVGSLVKELDREKEAAFQ RINSALQVEDKAISDCRPSWPS HTLSSLATGTSLGPAISKAPSM AQQETHKSQDCLGLLAPLASA AGVPSTAPMSGKKHRPPGPLFS SSDPLPATSSHSQDSAQVTSILP APPPAASMDVGMRRTRRGEPL MLPPPLELGYRVTAEDLDQEKE AAFRQIKSALQVEDKAI
16952	47320	A	17056	132	835	
16953	47321	A	17057	1	2947	MPEQDKDPRVQENPDQRRVP KVTGDARSAFRPLRDNGVLSF VPRPGPLQTYLHAQRSEIRYNQ TSQNTWTSSCTNQNAISSYSS VGGLGLKWRRGPAQGESGAG MPEQDKDPRVQQNPDDHRTV PEVTGDARSAFWPLRDNGGLSP FVPRPGPLQTDLHAQSSSEIRYN QTSQTSWTSSSTKRNAISSYSS TGGLPGLKQRRGPASSRCQLTL SYSKTVSEDRPQAVSSGHTRCE KAADTAPGQTLAPR
16954	47322	C	17058	229	624	
16955	47323	A	17059	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGSA RYAGTTQKWTAVLQPLSRTS LKDSSEKSSQWAEQLQAVYL VHFAWKEKWPVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAEFEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPCQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLIHICY IPHSIASDQSIH/TTKEVQ*WAH AHGHIHWSYHVSHHPEAAGL
16956	47324	B	17060	10	597	
16957	47325	B	17061	6	297	

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16958	47326	B	17062	1	474	
16959	47327	A	17063	1	2712	
16960	47328	B	17064	1	738	
16961	47329	A	17065	3	772	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWV\VEIEHLTM GHQVTMRPELPINCVLSDPCSH KVGHAQQHSIIKWRWY\IHYQA QAGPEGTSNLHEEVAQMPTVS TSATLPSLPEPTQMAL\WEVPY D\QFTEEEKTGAWFTDGS\AHYT GTT*KWTV\AALQPLSRTTLKDS CEGKSPHPHPVIAQWAHEQSGH GGRDGGYL\WAQQHGFLTKA DLAMATAECPICQQQKRTLNP
16962	47330	A	17067	1667	2012	LSPHWPPGLPFSALIYAF\GRSS RNKRRLMKT\MKVEACEDLSAP KYLRIQLPTGSPRRRSEAEVCI FQGS\FSLVHPPPLSYPSARR* PQTTPRPPRHPSLHPLHP\SAQ
16963	47331	A	17068	5	1074	RHSALGTGGSSSCRQQR\PRDT WVPETILTAWSS\RLQQLGPW LQVTVAGQVNTLAGIQKTIHAE HCNVTERPPTGHEALAPPCEQ GPPQVLDSNAVAPTADCGYQL STAINRNQELCGRKPAVSPSR/G JSPGSPILRPV\HGHGYCLQRL SGQKSNRRRTTQKSFQKLHV\DK RKPENFSKESDHL\IYSREGNPD VASLATPPGIWMMSATD\LFYG DPFAFPGGGPFTLSLERGPSVIL GTDASEELLFTKASLAVTSV\F QFSTGKIYTEWVWQKNK\SFSLP HFPTKPMASPVKGKHSTSL\LR LNYRDRWQCLQEGAGLALLSA HMKVPTGSKEPQAGK\PSKP RKQTPTTFKD
16964	47332	A	17069	2	699	CSACPVSHPWLLPWQSGSAFSL P*RALQRPQGHRLSKPMQSP RLSVLLRPWPRRPLPTDLLY*PS TRGHIHLH\DRHHGAPSVSRRW GDKASPPQFPYRSRDSK\RRPPQ HGEVGTVFTNNKGGQS\PATST WEVQSAECQKAPEAGPTTPSTA GDAEGANALRQESEGNWGSEA KSPHVAEAGSWRPQQGSCHHL HPPDKTKDAARKTHSPGDNGC QPRPPRCKTLWSLSRI
16965	47333	A	17070	223	1611	
16966	47334	A	17071	12	310	

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16967	47335	A	17072	31	430	LQAVRLFTLPTSSGL*KLRTVP TWSPSPSCFPHFQSGPRTRTAPT PSTINPGYSGSYSSGPPSLCPRTS RRAPPRHRVPAGRERLHIVVPP YPRPERHLLRVSRRLGILGNRV GRLPESRAIAGRKEEKTDTK
16968	47336	A	17073	1	474	
16969	47337	A	17074	153	1224	RVFSEVSCSPVRNLEFLWRFAP PLAPAGRCPPGVPLQTSPRDTD AHRSSPLPARASPGQVAAAYR WARCPGCGGRKPRSSGSWQLC RCPTLPPPPRGRSSGRC/RTWP SPSPSCFPHFQSGPRITRAPTPSTIN PGYSGSYSSGPGR*GLSPLHAA/ VSPPLPPGP*GSWARAGLSI ASAHSPCLCRSLIRSR*QTCT RSPT*NCEVPPAS*AA SPLRTM FALVRTAGLKVHLLPLGYCTT MS*SSSMPTVPVVVKVSNIPS VHPP*PCKDCTISRSRIFTRSPI CNPPGFLLPFCSPSTIGQ*SL*KEP PLASWTHFRSDVLLLFVSMNG STLSLGCPSQKAVIALVQVT
16970	47338	A	17075	215	1246	
16971	47339	A	17076	566	675	QPCRQ/CLQPGSPRFHARTLT VTLVHTRTHTAHAH
16972	47340	A	17077	184	584	
16973	47341	A	17078	1	1167	
16974	47342	A	17079	849	2266	
16975	47343	A	17080	1505	1891	DAEKAFDEIQ/PFMIKILRSI QGTLYLVIKTIYDKPTANTILN VEKLKTFPLRTGTQGCPLSAL LFNMVLEVIARIRQEKGIKGIQ ISKKEVKLSLFADDIMVHIENPK DSSRKLLELKEFSKV
16976	47344	A	17081	1	842	
16977	47345	A	17082	155	531	GNLWSVDLRPGTPLRQNFRTI RQQHSRFTKNHCSQTPLLIPRQ TGSVDVLSKLQQTCS*GSCLV TIDLANAFSIPVHKA/HQKQFA FSWQ/YTFTVLPRLTWLQPC*V PNLPAEATNTEPSNGT
16978	47346	A	17083	1	1773	
16979	47347	B	17084	598	1428	
16980	47348	A	17085	3	227	
16981	47349	A	17086	1	207	

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16982	47350	A	17087	1	789	RDLQPFTSVTVHCRKNGNDQTF GGPLDAGSELTIPGDPKHHC PPVKVGAYGGQVINGVLA/HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLLEQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQGGQYTFVLP QWYINSPALCHNLIRRDLD CFS LPLDITLVHYIDDIMLIGSSEQ VANTLDL FVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ
16983	47351	A	17088	1	435	
16984	47352	A	17089	2	808	PLIWL VQKTDGS/WRMTVDY CLNQVVIPIAAAVSDVVSLLEQ NTSPGTWYAAIDLANAFFSIPV HKAQQKQFAFSWQGGQYTFV LPQWYINSPALCHNLIRRDLD C FSLPLDITLVHYIDDIMLIGSSEQ EVANTLDL FVRHLRARGWEINPT TKIQGPSTSVKFLGFQWCGACQ AIPSKMRDKLLHLVPPTTKKEA QCLQLLACY/WALVETEHLTIS HQVTMRPELPMINWVLPDSSH KVGCAQQHSIIKWKVYVHDW ARAGPEGT
16985	47353	A	17090	2	544	
16986	47354	A	17091	1	633	MTVDYRKFNQVVPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFALPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQE NTLDLILHKRSKEAHTAASRIR VSCLPEQKSEHTLPWEQVPSS GDIKEYFPNFAVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADAEEIEALRG
16987	47355	A	17092	1	3228	MVTSSLTVAITSLVVVITSLV TSFVVVITSLVVVITSLVVVIT AIAIATLVVVLTFVTVVLTSLV VVITSLVMVITPPFAVITSLGV VITSLVVIITCLVLVITLGVVIT LGVVITSLVMVITPLVAVITPL GVVITSLVVVITSLVMVITSLTV VITSSIVVITPLVMVITSLTVIT LFVVITPLVMVITPLIVVNTSLV VVLITLIVSPPSLCCLVVVITFL VVAITSLVVVITSLVVVITSL
16988	47356	A	17093	1	471	
16989	47357	A	17094	1	1590	

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16990	47358	A	17095	332	1704	RGYVFCSSWKKTGDS/WRMTVD YCKLNQVVIPIAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQYTF TVLPQWYINSPALCHNLIRDL DCFSLPLDITLVHYIDDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSHIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCCHG GRDGGYAWAQCRI.PLTKAD LNTATAKRPIQQQRPTLSPQY GTIPQGDQPATWWVVDYMG LPSWKGQRFVLGTIDTYSYGYF AYPACNASAKTAICGLTECLIH HHIDIPHSIASDQGTFFMAKEVR QWAHDHGHWSYHVSHPHEA AGLIEWWNGLLKSQLCQLGD NTWQGWGKVLQKVYVALNQH PIYGTVSPIAKIHRRVADSLKGG SGSWVWGFSTLAALDNDLGT RKVRAPSTN
16991	47359	B	17096	1	2061	
16992	47360	A	17097	1	1623	
16993	47361	A	17098	1	741	
16994	47362	A	17099	213	679	
16995	47363	A	17100	33	853	
16996	47364	A	17101	3	1249	
16997	47365	A	17102	17	770	
16998	47366	A	17103	130	469	
16999	47367	A	17104	1	1425	
17000	47368	A	17105	1	882	

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17001	47369	A	17106	227	1519	VTLLIKMNAMLETPLFLSAVSDG VKLSAVAALVYVIVRCMNLKS ATAAPDLYLQDSGLSRFLKSC PLLTKYIPPLIWGKSGHIQTAL YGKMGRVRSPPHYGHRKFITM SDGATSTFDLFEPLAEHCVGDD ITMVICPGIANHSEKQYIRTFVD YAQKNGYRCAVLNHLGALPNI ELTSPRMFTYGTWEFGAMVN YIKKTYPLTLQVVVGFSLGGNI VCKYLGGETQANQEKVLCVSV CQGYALSRAQETFMQWDQCR FYNFLMADNMKKIILSHRQALF GDHVKKPQSLEDTLDSRLYTAT SLMQIDDNVMRKFHGYNLSKE YEEESCMMRYLHRIYVPLMLV NAADDPLVHESLLTIPKSLSEKR ENVMFVLP.LHGGHLGFFEGSVL FPEPLTWMDKLVVEYANAICQ WERNKLQCSDETEQVEADLE
17002	47370	A	17107	21	385	SRSSSVVRQEPGRADGQRRRR GGPGLRSPGERQQPRPARPCRR AHPGDPAGA/Q/PPPKTGKTCG APKATTRSTRCSISR*PPFPRSSC PTSPRAPSSSASTAAMRRWL VTCRMPNWA
17003	47371	A	17108	158	423	
17004	47372	A	17109	1	1851	
17005	47373	A	17110	1	1104	
17006	47374	A	17111	66	432	
17007	47375	A	17112	103	3531	
17008	47376	A	17113	1	1311	
17009	47377	A	17114	1	750	
17010	47378	A	17115	183	373	QPQATTLVHPVHVA*LF*VHW QNRYPADNQGYRHWRCLLPA LPDAGR/VRLSASC*KPPNSRG
17011	47379	A	17116	344	480	SPKDQEPSISKV***TSLPTSSR SLCLPPARMHFVWLAALLSFA
17012	47380	A	17117	3	3565	HEARRGLKMAACGRVRRMFRL SAAHLHLLLFAGA/RNSPARA SHSQGGQPGANFVSFVGQAGG GGPAGGQLPQLQSSQLQQQQ QQQQQQQQPQPQPPFAGGPP ARRGGAGAGGGWKLAEESCR EDVTRVCPKHTWSNNLAVLEC LQDVREPENEISSDCNHLWNY KLNLTTDPKFESVAREVCKSTIT EIKECADEPVGKGYMVSCLVD HRGNITEYQCHQYITKMTAIF DYRLICGFMDDCKNDIN

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17013	47381	A	17118	1	495	PDRRRGCPALSGS*SGPAPRL/C LCNPTLTTFHPSGVIGVCL*RHWC LCRANTRHPSYRGRLSSR
17014	47382	A	17119	1	1479	
17015	47383	B	17120	67	8652	
17016	47384	B	17121	67	9183	
17017	47385	A	17122	1	1440	
17018	47386	A	17123	1	422	FRWKELDRPLEPSPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPPL QQFFVVMHECLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPLGNEFYEHALM MEEEGAVIVG
17019	47387	A	17124	2	587	WMGSCGLHRAWLQMRWWPE SAWKELDRPREPPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPPL QQFFVVMHECLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPLGLKTPGRARAW LRLALMQKKMADYLRCLIIQR DLLSEFYEHALMMEEGAVI
17020	47388	A	17125	312	493	
17021	47389	C	17126	102	278	
17022	47390	A	17127	2	140	KAHNCSGLRPPDLNPSVSNRL FASFLSPRDLKGR/ICSD*SQVL
17023	47391	A	17128	1	2051	
17024	47392	A	17129	1	498	
17025	47393	A	17130	2	340	
17026	47394	A	17131	140	396	
17027	47395	A	17132	703	912	
17028	47396	B	17133	201	912	
17029	47397	A	17134	1	1382	
17030	47398	A	17135	2	431	
17031	47399	B	17136	99	1151	
17032	47400	A	17137	1	891	
17033	47401	A	17138	15	2722	

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17034	47402	A	17139	476	2934	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLAIRQ EKEIKGQLGKEEVKLSLFADD MIVYLENPVSAQNLLKLSNFS KVSQGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNNIPCSWVGRIINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLRFIWNQKRARIAKAI LSQKNKAVGITLPDFKLYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPLIYNYQIFDKPEKNKQ WGKDSL FNKWCWDNWLAIKR KLKLDPLTPYTKINSRWIKAL NLRPKTIKLEENLGITQDIGTG KDFMTKTPKAMATKDKIDKW DLIKLSFCTAKETTIRVNRPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWEKDMNR HFSKDDILAAKKHKCCSSAI REMQIKTTMRHYLTPVRMAIHK KPGNNSQKDIPDWRNGPKRKD RQITTFRGPTKLQVVVPTLGAA PGRGCPWPRRPRCPGREGEELH PALGGERGQRQAAGSGGARRL APSAGDGLCVGPVEDTGETQT WKTGQPGLEPWWGWRPTEPP PAPSSHSEEWPRRPPVRRAPRP AGEHAGEGGAADVADTTAFSPW LPRVGGWHLQVHRGGRSCAGA RRFGGSRGWDLDLSSAPVASL
17035	47403	A	17140	1	2298	
17036	47404	A	17141	3	482	
17037	47405	A	17142	1	1026	
17038	47406	A	17143	1	623	
17039	47407	A	17144	25	392	ESLKGADPKFLRNMRFANKHN KKGLKKMQANSARATTSARAD AIKALVKPEKGPDIPKGVSRK LDPLAYIAHPRLGKCAHSCIAK GLKLCRLQAKDKDQTKAQAA APA*APKGARTPTKASE
17040	47408	A	17145	1	507	

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17041	47409	A	17146	2	811	YRFSGPTIRSIQNHTHTNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTYVGPFLRNTRFKAKHNK KGLKKMQANNAKAMSAIAE AVKALVKPEVKPKIPKGG/SR KLRLTLPDIVHP/KLGSARAPY LPRGFRLCLPNANAKSISSQGO GQGGQGSNQGGPFKPLQVP ASGVNVPRLTKGFQSRYSLA QHEGQERTWVRPPTPRPWGYH FAWGWGSPVAICTNKPEAGKR RNEKEKLCQGDGY
17042	47410	A	17147	1	636	
17043	47411	A	17148	169	410	
17044	47412	A	17149	385	1359	QTNSPNCVRGRVSPVLPGSSS MDVLASYSIQELQLVHDGTGYF SALPSLEETWQTCLELERYLQ TEPRRISETFGEDLD/CFL/HAFP SPCIEESFRRLDPLLPVEAAICE KSSAVDILLSRDKLLSETCLSLQ PASSSLDSYTAVNQAQLNAVTS LTPPSPFELSRHLVKTSTLSAV DGTVTLLKLVAKKAALSSVKVG GVATAAAAVTAAGAVKSGQS DSDQGGGLGAEACPENKKRVHR CQFNGCRKVYTKSSHKAHQQR THTGEPKYKCSWEGCEWRFRAR SDELTRHYRKHTGAKPFKCNH CDRCFSRSDHLALHMKRHI
17045	47413	A	17150	1	948	
17046	47414	A	17151	400	446	PSFLR*PSFWSREFH
17047	47415	A	17152	7212	10914	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLQDLASRGRAI PFCGQGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDRAFRHNSLDFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLV AELQGFDD KHIWLSIWDPRPSRFTRIQRAT CCVLLICFLGANAVWYGAVG DSAYSTGHVSRSLPSLV
17048	47416	B	17153	1	14934	

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17049	47417	A	17154	999	3009	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRFKYIELVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHL DGDRAFHNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRRLLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSVDTVAV GLVSSVVVYPVYLAILFLFRMS RSKVAGSPSPTPAGQQVLDDSD CLDSSVLDSSTLFTSGLHAEVRT LLGVLGWAGGPAALAQGLKT LCTSQAFVGGMKSDLFLDSD KSLVCWPSGEGTSLWPDLLSDP SIVGSNLRQLARGQAGHGLGPE EDGFLASPYSPAKSFSASDEDL IQQVLAEGVSSPAPTQDTHMET DLLSSLCAEVHTALPLHCSCLQ DSVQWHA VQQLPAFCRGPDPVT QEAQETARPAQNVLVLIPLHAA PHQAVAEIDALYDVYLDVIDK WGTDMDLFLGDFNADCSYVR AQDWAAILRSSEVFKWLIPDS ADTTVGNSDCAYDRIVACGAR LRRSLKPQSATVHDFQEEFGLD QTQASGPWGGAGLGSPPPGRT QAAGRALAISDHPFVEVTLKFH
17050	47418	A	17155	242	363	TKRQENGRRKKQDRTPTEQQLR VK*KSRSTKKRRKQSRSES
17051	47419	B	17156	1	12879	
17052	47420	A	17157	3	596	NLLFPVRSERGPHRPTPLSLWL LRPCELNKLAAAGGLAAGSSRA GALYLLIYIPRRPARAAPLCPAA ATGAPGASAGSASPASARPPGL ARAAPGLRGRPRSPRTFCV WLGVSLLSYQHYFAEPFESFQ VCCRHCGLCLTIRVHFPCLSAN PFHFSQLHLGPRPGKACHSVGL QIYNSQAHSHPSQERQLFC
17053	47421	A	17158	1	235	FFFVLYNLFLFVITSIPLOKVSIL TQRQLVAEENVKCCTVIPEPQ** *LSNYPFVEMGFCHVGPQWSR TPTPKSVSR

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17054	47422	A	17159	256	4064	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRGFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFRTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17055	47423	A	17160	2	347	LTSRGP/LCCVLLICLFLGANAV WYGAVGDSAYSTG/LCVQAE AERRHSRCWPGVQRGCLSRLP GHPLSLPDVPEQGWEPHPTC RAAGAGRRQLPGLNPCWTAPS SRSEASTLR
17056	47424	A	17161	9415	9994	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRGFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSFFLVN DWLSVETEANGGLVEKEVLAA SKASFRVPTPSRSPVALPAPAGG
17057	47425	A	17162	1030	1222	
17058	47426	A	17163	2	2762	
17059	47427	A	17164	25	115	
17060	47428	A	17165	1	383	
17061	47429	A	17166	120	596	IKAPCASFPSTGFPQRRSFVGR SSSTPEECGHSELGRNEDKASR GRIRQQ/PFAVLKYLLFCSLRW* YPGKQGLEWTSSKLQQTCKRY RERHKDTPQEEQLQDT*LSG/V TK/G*NEGKNVKGSRERSGYS QREAHQTSRSLGRNSTSQKRV GASIQRS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17062	47430	A	17167	1	2236	RPSGPQPLPGSVRHPRPVLRRLPL PRAQGSSSFRPRPFAPDPTMD KFWWHAAWGLCLVPLSLAQID LNITCRFAGVFHVEKNGRYSIS RTEAA\NLCKAFNSTLPTMAQM EKALSIGFETCRYGFIEGHVVIP RIHPNSICAANNTGVYILTSNTS QYDTYCFNASAPPEEDCTSVTD LPNAFDGPITITIVNRDGRTRYVQ KGEYRTNPEDIYPSNPPTDDVS SGSSSERSSTSGGYIFYTFSTVH PIPDEDSPWITDSTDRIPATSTSS NTISAGWEPNEENEDERDRHLS FSGSGIDDEDFFISSTITTPRAF DHTKQNQ\DW\TQW\NPSH\SNP EVL\LIQTTTRMTDVDRNGTTA YEGWNWPEAHPLIHHEHHEEE ETPHSTSTIQATPSSTTEETATQ KEQWFGNRWHEGYRQTPREDS HSTTGTAASAHSTHPMQGRT TPSPEDSSWTDFFNPISHPMGRG HQAGRRMDMDSSHSTTLQPTA NPNTGLVEDLORTGPLSMTTQ QSNSQSFSSTHEGLEEDKDHP TSTLTSSNRNDVTGGRDPNHS EGSTTLLEGYTSHPHTKESRT FIPVTSAKTGSFGVTA\TVVGDS NSNVNRSLSGDQDTFHPGGSH TTHGSESDGSHSGQEGGANNT SGPIRTPQIPEWLILASLLALAL LA\VCIAVNSRRRCQGKKLVIN SGNGAVEDRKPSGLNGEASKS
17063	47431	A	17168	1	1980	

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17064	47432	A	17169	362	2551	EDFSTSATTPSSSPRELPSGGQL WLCWLELLPSFTRNGVVHTGP C*GLC*RWQLSPQSLPSNFGM KISDMATLITTPAA/FSSSDW NTPAPTQSPPEVRRLLHLCSTFM DMLKVGQGEAAAGLVQNP SGHALGCLDSAASGSDPSVAV LLENVPNQRGESLRCPVYVYLGQ WNCSEKGTGMDSGQFGEEKGAH DPSPTYHYHACLSQWW/PSPEP YPQSPGPVQKEPRNPCKSISML CLWIRYHAAADSGSSRAKLPLEE RLRPFSPTHCLAFPLPLEKRPE GNVGRCPSTGKLPEEGSGSNI CCSAIFPVLPPLV1PRQTRSGV DLQQTPTDLQRLDTRSSLP MEQSWIENDFELNRSRLQKA NKLLENLEETDKFLDTYTLPRLN QEETESLNRPTTGSIEAIINNVP TKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDAEEKAFDNIQ QPFMLKTLNKLGDATYLIKIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTEQIMSELPTIASKRIK YLGQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILPKSGPSAARLLEFAGG PLQTLFAWVSPSEAAEQILPN
17065	47433	A	17170	1	483	
17066	47434	A	17171	52	321	
17067	47435	A	17172	274	393	
17068	47436	A	17173	304	415	
17069	47437	A	17174	321	796	
17070	47438	A	17175	1	198	
17071	47439	A	17176	2	454	CRVPAAATNGRCFPAATPRDPGP RMRRACAWGRSKGAGRCLRR ATTRDKMAKKESILDLSK\YID\ KTIRVKFQGGRR\ASGILKGFEP NLL\NLVLTVTI*YMRDPDDQY KLTED\TRQLG\LVVFRG\TSLVL MCPQDGMEAI\NPFIQQQDA
17072	47440	A	17177	1	1806	
17073	47441	A	17178	1215	2065	
17074	47442	A	17179	217	441	
17075	47443	A	17180	117	296	DWSDIQLG*SLSLSEIFQL*IV SPPALHPAKLLHRS*A*LVSPQIG RECQCGGWTAMC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17076	47444	A	17181	2	138	LRTAPEFPGRFRGCAAAAAAES VAALL*STPPCRSGDSLCKGR
17077	47445	A	17182	222	760	
17078	47446	A	17183	192	244	YIQPVF*GWTLGCCQFF
17079	47447	A	17184	1	990	
17080	47448	A	17185	1	2196	
17081	47449	A	17186	459	1387	
17082	47450	A	17187	2	454	
17083	47451	A	17188	1	957	
17084	47452	A	17189	398	553	
17085	47453	A	17190	2	293	
17086	47454	B	17191	53	182	
17087	47455	A	17192	3	1114	
17088	47456	A	17193	1	1024	SVVEFIPSCAVVLWSSVLLSPVR LLSYLSGVPPGHMPEDSMMDM MSPLRPHNYLFGCELKAGQDY HFKVNDNEHQLSLRTVSLG\ AGAKDELHIVEAEAMYEGSP IKV/THLATLKMSVQPTVSLGG VFEITPPVVALRLKCGSGPVHISG QHLVAVEEDAEEDEEEDVK/ LSLSISGKRSAP/GGGSQVPQKE RKTCMLMKDDDD\DEEDGYD EDD\DDDDDDF\DEEAEEKAP SERNLRYDTPAKNAQKSNQNG KDSKPSSTPRSKGESF\KKQEK TPKTPKGPSSVEDIKAKMQASI A/EKGGSLPKVEAKFINVVKNC FPMTDQDAIQDLWQWRKSL
17089	47457	A	17194	2	291	
17090	47458	A	17195	185	307	
17091	47459	A	17196	3	392	VRGGQAFRQRPAPPLPVTRSAH RGRRPTRASQPSLFHLLREGK MSESSKSSQPLASKQEKDGT KRGGRPRKQP\PVSPGTALVG SQKEPSEVPTPKRPRGRPKGSK/ NKLEKEEEEESQESSEEEQ
17092	47460	C	17197	76	378	
17093	47461	B	17198	1803	1905	
17094	47462	A	17199	1	416	
17095	47463	A	17200	30	407	
17096	47464	A	17201	1	993	
17097	47465	A	17202	1	1287	
17098	47466	A	17203	1	2004	
17099	47467	A	17204	1	1368	
17100	47468	B	17205	1	3035	
17101	47469	B	17206	1	981	
17102	47470	A	17207	1	2017	
17103	47471	A	17208	1	1069	
17104	47472	A	17209	1	2463	
17105	47473	A	17210	1	324	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17106	47474	A	17211	51	1528	GREASKMAQTQGTTRRKVCYY YDGDVGNYY*GQGHMPKP/HR IRMTNHLNLLNYGLYRKMEIYRP HKANADEMTKYHSDDYIKFLR SI/RVPDNIVGSTSKQMQRFNVG EDFPSIPMACFEFCQLSTGGGVA KCL*NFNKQQTDIANWAGGL HHAKKSEASGFCYVNDIVLAIL ELLKYHQRVLYIDIDHHGDBGV EEAFYTTDRVMTVSFHKYGEY FPGTGDLRDIGAGKGKYAVN YPLRDGIDDES YEAIKFPVMSK VMEMFQPSAVVLQCGSDSLG DRLGCFNLTIKGHAKCVEFVKS FNLPLMLGCGGYTIRNVARC WTYETAVALDTEIPNELPYNDY FEYFGPDFKLHISPSNMTNQNT NEYLEKIKQRLFENLRMLPHAP GVQMQAIPEDAIPESGDEDED DPDKRISICSSDKRIACEEFSDS EEEGEGGRKNSSNFKKAKRVK TEDEKEKDPEEKKEVTEEEKTK EEKPEAKGVKEEVKLA
17107	47475	A	17212	1	492	
17108	47476	A	17213	1	1851	
17109	47477	A	17214	1	753	
17110	47478	B	17215	427	614	
17111	47479	B	17216	1	711	
17112	47480	A	17217	750	1173	
17113	47481	A	17218	1	1224	
17114	47482	A	17219	1242	1743	
17115	47483	A	17220	423	1739	
17116	47484	A	17221	117	1183	
17117	47485	A	17222	1	377	FRRGAW/VPLLTRWGFPRGGC ISNDSPRRS/IHYRETKPEPPVRV CARGLQRTPSAGHRAVLRMPR RGRTRPGAPQGGGAALGGPARD RECACAGRAQTALRKNCVC KMPSGRGRTCSKNFSYFPS
17118	47486	A	17223	331	1134	
17119	47487	A	17224	178	1200	
17120	47488	A	17225	1	367	
17121	47489	A	17226	85	3360	
17122	47490	A	17227	8	930	
17123	47491	A	17228	1	765	
17124	47492	B	17229	120	509	
17125	47493	A	17230	232	3187	
17126	47494	A	17231	1	999	
17127	47495	A	17232	1	325	
17128	47496	B	17233	1	535	
17129	47497	A	17234	271	634	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,40,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17130	47498	B	17235	301	523	
17131	47499	A	17236	1	1185	
17132	47500	A	17237	178	497	LPVPAYELNGSQQLPLLLGAAA IGYLAYKRFYVKDHRNKAMIN LHIQKDNPKIRHAFDMEIDLGD KAVYVCRCWRSKKFPFCDGAHT KHNKEVTGDNVGLIHKKET
17133	47501	B	17238	184	395	
17134	47502	A	17239	1	103	PAWHEGQPQPESECPQRQCIC SHGRGTPARCGVSY*ART/PAG ESP*TQQDLRAS*LGTRANHSQ RASARHKDSASAVTGAGHQ RD AE
17135	47503	A	17240	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFPSSVLNCSKCSWQLAAC MGFSF
17136	47504	A	17241	265	890	
17137	47505	A	17242	1	1374	
17138	47506	A	17243	1	6189	
17139	47507	A	17244	1	8277	
17140	47508	A	17245	178	1177	
17141	47509	A	17246	1	447	
17142	47510	A	17247	1	465	
17143	47511	A	17248	3	3910	
17144	47512	A	17249	2	1871	
17145	47513	A	17250	1	666	
17146	47514	A	17251	1	635	FPGRFRRAVWCTHCCAPTSPG PVLPHSAAMSFLKSFPFPGPAE GLLRQQPDTEAVLNGKGLGTG TLYIAESRLSWLDGSLGFSLE YPTISLHALSRDRSDCLGEHLY VMVNAKFEEESKEPVADEEEE DSDDDEVPITEFRFVPSDKSAF* FPCSVEAMFTAMCECQALHPD PEDESDDYDGEEYDVEAHEQ GQGDIPTFYTYEEGLS
17147	47515	A	17252	1	2796	

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17148	47516	A	17253	1	2393	MEIRGALDLRKRQVLIFLVLGG LSRAGTESAHYSVAEETEIGSFV ANLARDLGLGVEELSSREARV VSDDNKKYLHLDLLTGNLLLN EKLDRLDELCGSTEPCVLHFQVV LENPLQFFRFELCVKDINDHSPT FLDKEILIKISEGTTVGATFLME SAQDLVVGNSNLQNYTISPNSH FYIKIPDSSDRKIYPELVLDRAL DYEQEAELRLTLTAVDGGSPPK SGTTLVLIKVLDINDNAPEFPQS LYEVQVPEDRLPSWIATISAK DLDAAGNYGKISYTFHASEDIR KTFEINPISGEVNLRSPLDFEVIQ SYTINIQA TDGGGLSGKCTLLV KVMDINDNPPVEVTISSITKRIPE NASETLVALFSILDQDSDGNGR MICSIQDNL PFFLKPTFKNFFTL VSEKALDRESQAEYNITITVTDL GTPRLKTEYNITVLLSDVDNDNA PTFTQTSYTLFVRENNSPALHIG SVSATDRDSDGTNAQVNYSLPP QDRHLPLASLV SINADNGHLFA LRSLDYEALQEFERVGATDRG SPALSSEALVRVLVDANDNL PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDGSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPPEAAPAQADALL TVVYLVALASVSSLFLLSVLLF
17149	47517	A	17254	89	1283	
17150	47518	A	17255	1	276	
17151	47519	A	17256	2	259	WQGGILGSDPTPPLTSPNLLQT ACFREERDV/RRERGQPLGDHS ALCLPRRGVPPCDGLLCWWG PPDAAEPLRGSPARAGPVLPG
17152	47520	A	17257	624	4055	
17153	47521	A	17258	3	1784	
17154	47522	A	17259	1	1272	
17155	47523	A	17260	3	576	
17156	47524	A	17261	1	1017	
17157	47525	A	17262	1	1107	
17158	47526	A	17263	256	634	
17159	47527	B	17264	76	1340	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * =Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
17160	47528	A	17265	1659	2107	NLLCCTCSPFSSPVSAPOCTCTSN CIAILVHQQQWLVSLLQKHFF LHLHIFLA/LVFNFSLSHSF*IFDF DPWKLP*PISPTLSSLPSNRHIA LILPCSCMTEDFDFKMPPAVAR YMTSPQAVHIIAVCPFKASRKV SHSSLKIWLKFSV
17161	47529	A	17266	248	540	KFFSLRMLNPNHCLLACRVSA ERSAVSLMGFPLCISRPFSLAAL NIFSFISTLVNLMHISLGVALLEE YLCGLCIS*IGMLACLARLGKF SWIIR
17162	47530	A	17267	4880	5121	
17163	47531	A	17268	468	602	CLQLCSFGLGLTW*CGLFFYST *TLK*FPIL*RMVVF*WGLH
17164	47532	A	17269	359	462	
17165	47533	A	17270	457	600	LWWFNALFLCWTSFLTTLLE LHECLPVWRD*TRRH.TGWSK GSCTN
17166	47534	A	17271	2405	2830	TPVFRFIALSYTFADSDGEYF*IL LSENPQRFKCCFNMRSNKIPW DTFANSIKGAEFSGKHFIETFISS SESESESESTRFRDFRGLETSSSL SLDSFSLGDDFLSFLSFTIDA VSSKRLSKEIRKARLCWRFPRI
17167	47535	A	17272	1	2172	
17168	47536	B	17273	446	625	
17169	47537	B	17274	1	2604	
17170	47538	A	17275	1	3039	
17171	47539	B	17276	1	1383	
17172	47540	A	17277	1	993	

SEQ ID NO:	SEQ ID NO of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17173	47541	A	17278	3	2494	RSTRQKVNKDTQELNSALHQA DLIDYRTLHPKSTEYTFSSAPH HTYSKIDHIVGSKTLLSKCKRTE IITNYLSDHSAIKLELRKLNLTQS RSTTWKLNLLNDYVWHNE MKAIEIKMFFETNENKDDTTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQLEKELEKQEQ THSKASRRQEITKIRAELEKEIET QKTLQKINESRSWFFERINKIDR PLARLIKNNKREKNQIDTIKNDK GDITTNPTIEITIREYYKHLA NKLLENLEMDITFLDTYTLPRLN QEEVESLNRPIITGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLKLFQSEIEGILPNSFYE ASIIIPKPGRDITTKENFRPISL MNIDAKILNKILANRIQQHKKL IHHDQVGFIPGMQGWFNHKS NVIQHINRAKDKNHMISDEEK AFDKIQQPFMLKTLNKLK/DKI PRNPTYKGCEGLQGLQTTAQ GNKRGHKQMEHSMMLGRKN QYHENGHTAQ/IL*IQCHPHQ ATNDFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGYSNQNSMVLVPKQR YRSMQENRALRNNAAYLQLSD L*QP*EKQAMGKGFPI* MVLG KLASHM*KAETGSLPYTLKYN QFKMD*RFKR*T*NHKNPRKRP RHYHSGHRHGGQLHVQNTKSN
17174	47542	A	17279	285	502	
17175	47543	A	17280	1	3189	
17176	47544	B	17281	1	1235	
17177	47545	A	17282	1	3139	
17178	47546	B	17283	1	1779	
17179	47547	B	17284	1	3127	
17180	47548	A	17285	1	3325	
17181	47549	A	17286	1	3145	
17182	47550	A	17287	1	1095	MIMGDFNTPLSTLDRSTRQKVN KDIQELNSALHQAADLIDYRTLH PKSTEYTFSSASHTYSKIDHIV GSKALLSNCKRTEIITNYLSDHS AIKLEKIKKLTTPNRSTTWKLN NLLNDYVWHNEMKAIEIKMFF ETNENKDDTTYQNLDWTFKAEC RGKFIALNAHKRQERSKIDTL TSQLEKELEKQEQTHSKASRRQE ITKIRAELEKEMETQK/TLQK/INE SRG/WKKFLEKLCFIELS*ARRI

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17183	47551	A	17288	1	3229	
17184	47552	A	17289	1	1205	
17185	47553	A	17290	1	986	
17186	47554	A	17291	1	3170	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDYRTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDGS AIKLELRINKLNTQNRSTTWKLN NLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDFKAV CRGKFIALNAHKKRQERP KIDT LTSQLEKEQEQTSHKASRRQ EITKIRAELEIETQKTLQKIN*S QSWFFERVKKIDRPLARLIKKK REKNQIDTIKND
17187	47555	B	17292	1	2148	
17188	47556	A	17293	1	1416	
17189	47557	A	17294	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLDIYRTLHP KSTEYTFPSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRINKLNTQNRSTTWKLN LLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKA VCR GKFIALNAHKKRQERSKIDTLT SQLKELEKEQEQTSHKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
17190	47558	A	17295	1	3345	
17191	47559	B	17296	1	3122	
17192	47560	A	17297	1	2118	
17193	47561	A	17298	965	4091	
17194	47562	B	17299	15	2762	
17195	47563	A	17300	1	3049	MTVKVRITVTS GKPPWLIPRQ TGYGVDLWQPTDQLRLVLT RRKTNKQKGHPHQNPICTSPSS KTKDRSTRQKVNKDQELNSAL HQEDLDIYRTLHPKSTEYTFPS APHHTYSKIDHIVGSKALLSKW KRTEITANCLSDHSAIKLELRJK KLTONWSATWKLNNLLNDC WVHKEMKAEIKMFFETKENK\ DTTYQNLWDAFKA VCRGKFIA LNAHKKRQERSKIDTLTSQLE LEKQEQTSHKASRR

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17196	47564	A	17301	3	4101	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIRYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNPNLND YVWHKEMKAEIKMFFETNENK DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQKKE LEKQEQTTHSKATRRQEITKTRA ELKKIETQKTLQKINESRWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
17197	47565	A	17302	1	3234	MANKNNQCREVLKGPDELKT MAREPHDKCTSFSSQFDQLEER VSAMEDQMNMKREEKFREK RIKRNEQRLQEIWDYVYKRPNLC LIGVPESDGENGTKLENTLQDII QENFPNLRQANIQIQEIQRMP QRYSLRRTTPRHIIIVRFTKVEM KEKMLRAAREKGRVTHKGKPI RLTADLSAETLQARRESTRQKV NKDIQELNSAQHQADLTDNYR TLHPKSTEYTLFSAPHHTYSKID HIVGSKALLSKCKRTEI
17198	47566	A	17303	1	3390	MLTLNHNRLTDAILNISTCLSR HLDLNTGGKKRISYKRNLYME EHLEGLCSNEFTWENSTIMTDS QMLMHREEPGLPNIPILSIVFT NNRSKRQKVNKDIQELNSALH QADLIDIRYRTLHPKSTEYTFESA PHHTYSKTRIVGSKALLSKCK RTEIITNCLSDHSAIKLELRKIKL TQNCSTTWKLNLLNDYVW HNEMKAEIKMFFETNENKDTT YQNLWDTFKAVCRGKFIALNA HKRKQERSKIDTLTS
17199	47567	B	17304	1	2427	
17200	47568	A	17305	1	4257	
17201	47569	A	17306	1	3726	MVVKTNARELRDECTSLSSPFN QLEERVSVMENQMNMKQEE KFREKRKRNEQSLQEIWDYVK RPNLCIGVTESDGENGTKLEN TLQDITQENFPNLARKANIQIQE TQRTPORYSRRATLRHIIIVFT KVEMKEKMLRAAREKDFTPTK IKRDKEGHIYIMVKGSIQEEELTI LNIIYAPNTGAPRFIKQVLSDLQ RDLDSHTLIMGDFNTSLTLDR SMRQKVNKDQELNSSLHQAD LIDIRYTLHPKSIE
17202	47570	A	17307	1	1059	

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17203	47571	A	17308	130	1092	
17204	47572	A	17309	1	924	
17205	47573	A	17310	1	1206	
17206	47574	B	17311	1	1257	
17207	47575	A	17312	1	685	MEIILRICKLTISKELLDGSSRL TMTHYKHYFSSHAEQIIEEL NESEMICQHHHTAENDFELRE EGFRSIVITNFSKLKEDVQTHF KEAKNLEKRLDEWLTRINSVEK TLNDLM*LKTVA*ELRDYTSF NSRFDQVEERVSVIEDQMNE EREKFKREKRV*NEQS/LQEIW NYVKRPNLHLIGVSEIDRENGT KLENTLQDIFQENFTYLARQAN IQIQEI
17208	47576	B	17313	70	1227	
17209	47577	B	17314	640	751	
17210	47578	A	17315	1	2328	MGVSGAQPGRSCWHRSSGSGQ GLGPVPEPADCGGEAAGRARE EGTVSLTMTGADSEMAPEAP QHTHIDVHHQESALAKLLTTC CSALRPRTAQRGSSRLVASW VMQIVLGILSAVLGGFFYIRDY TLLVTSGAAIWTGAVAVLAGA AAFIYEKRGGTWALLRTLTL AAFTAIAALKLWNEDFRYGYS YYNSACRISSSDWNTAPTQSP EEVRLHLCTSFMDMLKVGGO GEGAAAGLVQNP SGHALGCLD SAASGISDPSVAVLLENVPNQR GESLRCPVYVLGQWNCSEKGT MDSGQFGEEKGAHDPSTTYH ACLSQWVWSPSPYQPSGPGQ VKEPRNPGKSISMLCLWIRYHA ADSGSSRAKLPLEERLPFSPTH DCLAFPLPLEKRPENVGSRCP SGTKLPEEGSGSNICCSAIFPVL QPPLVIPRQTRSGVDLQQTPTD LQLRDLTVRRKTNKQKQHPHQ NPMCTSPSSKTKELKEDVTRTHH KEAKNLEKRLDKMVMNRINSVE KTLNDPMELKTQARELHDKCT SFSSRFDQLEERVSVTEDQMNE MKREEKFKREKRV*NEQSLQE IRDYVKRPNLCLTGVPESDGEN ETKLENTLQDNIQENFPNLARQ ANIQIQEIQRTPQRYSSRRATPR HIIVRFTKVEKEMKMLRAAGE KGQVTHKGKPIITLADLLAETL
17211	47579	A	17316	508	666	
17212	47580	A	17317	622	780	

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17213	47581	B	17318	1	777	
17214	47582	A	17319	1	508	MSGFEKQYKKIRLDKTLDSENE GLELPVPAKRSLGVRLYACC GLLLCPAYPQHFAHGYVDKIPG YPGRAGTLTGLHPMQVCRCR QAPCLKSNNALIVILGTVTLD VGIGLVMPVLPGLLRDIVHSDS ASHYGVLLALYALMQFLCAPK YKLPSSENTTNTSMQIN
17215	47583	B	17320	310	1047	
17216	47584	A	17321	1	1101	
17217	47585	A	17322	577	735	
17218	47586	A	17323	337	642	
17219	47587	A	17324	2	653	
17220	47588	A	17325	2	935	
17221	47589	A	17326	532	729	
17222	47590	A	17327	1	675	
17223	47591	A	17328	1	684	
17224	47592	A	17329	2	641	
17225	47593	A	17330	1	808	
17226	47594	A	17331	562	675	
17227	47595	A	17332	2	1687	DTGNNEWKQQEGLSHNNWLG LGCLFGPETPIFYPATLGHSTSIY YERKKEDKNGMKEEHDTVA MFFTLFNFQISVENIRKGPV GESIAQSYLNVVQEIFRSRNHQ LLQDLTRDLCDNLKTCHTSHGS VMAETA VINHKKRKNSPRIVQS NDLTEAA YSLSRDQKRMLYLF VDQIRKSDGTLQEHGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKQRSNLGVRLYAC CGLLCPAYPQHFAHGYVDKIP GYPGRAGTLTGLHPMQVCRCR RQAPCMKSNNALIVILGTVTLD AVGIGLVMPVLPGLLRDIVHSD SIASHYGVLLALYALMQFLCAP VLGALSDRFGRRPVLLASLLGA TIDYAIMATTVPVRGHSVLKKGQ HKSVENLQPDNVIEKKIPFSGEK FKPAAEICKSNRELNVNHQDNG ENVSRA CQRLLQLPSQA WRF RRKNWFCGPGWSPFSVQSRD LVPCVPAAPALTKRGQGTQA VASEGSPKPWQLPHGVEPAG AQKSRAEVWEPPRFQKM
17228	47596	B	17333	12	60	
17229	47597	B	17334	253	2103	

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17230	47598	A	17335	469	2512	PTSAYERGQRFASRLQMNLEY FLRWLMAKIFQAPCMKSNNAL LIVILGTVTLDAVIGLVMFVL PGLLRDIVHSDSIASHYGVLLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYAIMATTP VLWIYPLVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSACKRDAELANGALGIIELN NDYTLKKVMKPLITSNTVTDEI ERANVFKMNGKWYLFDSRGS KMTIDGIKLNDIYMLGFVSNSL TGPYKPLNKTGLVLQMVLDPN DVTFTNFYLPGPQAKANMWLL QAHDKKSFSSRIKGTFGPAL
17231	47599	A	17336	2393	2945	
17232	47600	A	17337	980	1732	

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17233	47601	A	17338	1	2400	GRPFPRPRLCQRRRLGGGRMK MTGDFEECLKDSRFRFAALEEV EGDVAEELKLDKLVKLGAMI DTGKAFVCVANKQFMNGIRDLA QYSSNDAAVETSLTKFSDSLQE MINFHTIL/L*PNSINLRHSFSN FVKEDLRKFKDAKKQFEKVSE EKENALVKNAQVQRNKQHEVE EATNILTATRKCFRIHALDYVL QINVLQSKRRSEILKSMLSFMV AHLAFFFHQGYDLFSELGPYMK DLGAQLDRLVGDAAKEKREME QKHSTIQKQDFSRDSDSLKYNV DAANGIVMEGYLFKRASNAFK TWNRRWFSIQNNQVVYQKKFK DNPTVVVEDLRLCTVKHCEDIE RRFCFEVVSPTKSCMLQADSEK LRQAWIKAVQTSIATAYREKG DESEKLDKKSSPSTGSLDSGNE SKEKLLKGESALQVRVQCIPGNA SCDCGLADPRWASINLGITLCI ECSGIHRSGLGVHFSKVRSLTLD WEPELLKLMCELGNVDINRVY EANVEKMGIIKPQPGQRQEKE AYIRAKYVERKFDKYSISLSPP EQQKFVSKSSEKRLSISKFGP GDQVRASAQSSVRSNDSGIQQS SDDGRESLPSTVSANSLYEPEG ERQDSSMFLDSKHLNPLQLYR ASYEKNLPKMAEALAHGADV WANSEENKATPLIQAVLGGSLV TCEFLQNGANVNRQDVQGRG
17234	47602	A	17339	1	782	
17235	47603	A	17340	1	475	
17236	47604	A	17341	1	852	
17237	47605	A	17342	432	696	
17238	47606	A	17343	3	296	ETEIEALKEELLFLKKNQEEFV KGLQAQIAISGLTVEVDVPKSK DLAKIMADIWAQ*DELEDGEDF SLRDALDSSNSMQTIRKTTTRPI VSGWQSGV
17239	47607	A	17344	2	292	SQKKGLVGALTNPPHFPCPHL *EVKGLQAQIASSGLTVEVDAP KSQDLAKIMADIRAQYDELAR KNREELDKYWSQQVREGKGM GCQGVGGRQTE
17240	47608	A	17345	1	908	

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17241	47609	A	17346	1	1452	TGPEFHDLRLVRRRPQSLSPVL LLSSPDMSFTTRSTFSTNYRSL GSVQAPSYGAGPRRAARPASY AGAGGSGSRISVSRSTSFRRGM GSGSLATG\IAGG\LAGMG\GIQ NEKETMQSLNDR\ASYLDRVR SLET\ENRRL\ESKIRE\HLEKKG PQ\VRDWSHYFKINEDLRA\QIF ANTV\DNARIVL\Q\DNAPSCVR DDFR\VKY\ETEL\MRQSCWRT DIHGAPQGFDDTNYHTDLQL EKTEIRGSSRRELLFQ*RRNHEE /EKLKGLQAQIAQFLGLTRGR DCPQIFRDLRQDSDADIRGPIID ELASEEPRGSLDKY\WSQQHEE STTVVTTQFAEVEAAETTLTE LRRTVQSL\ENDLDSMRNLKAS LENSLREG*RPAYALQMEQLN GILLHLESELAQTRAEGORQA QEYEAALLNIKVKLEAEIATYRR LLEDGEDFNGLDALDSSNSMQ TIQKTTTRRIVDGKVVSEINDT
17242	47610	A	17347	467	843	
17243	47611	A	17348	114	1363	
17244	47612	A	17349	2	281	
17245	47613	A	17350	1	588	
17246	47614	A	17351	184	354	
17247	47615	C	17352	391	657	
17248	47616	A	17353	1	2010	
17249	47617	A	17354	2	443	VPDLPPSHRGFRAAQGGLPPKN KVAALPSWGSANQNSSARWEL VSPPIHRRGS*GPGETGDLGGSS IQRAVELRLVQAFVVPKSSLRD PSREGRGGWAG*VQTKGA*AR PTLLWAPKR/DRGGKAAPTSTW NSPKAGCPSARSSPAPP
17250	47618	A	17355	1	1359	
17251	47619	A	17356	260	380	
17252	47620	A	17357	153	273	
17253	47621	A	17358	270	484	AKYRGTSRRLKALGAHVVPKQ PIPAWQHKKDPSGGRPEEGVKL YREKEFSS*TL*/RI*TPGDWA YAWADAW
17254	47622	A	17359	2	941	
17255	47623	A	17360	1	615	
17256	47624	A	17361	911	1472	
17257	47625	A	17362	2	442	
17258	47626	B	17363	76	235	
17259	47627	A	17364	38	190	
17260	47628	A	17365	134	523	
17261	47629	B	17366	1	1776	

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17262	47630	A	17367	394	554	
17263	47631	A	17368	22	831	
17264	47632	C	17369	1	1191	
17265	47633	A	17370	199	647	PSVPTGSRNRRTTAVAVEERQSDGSGSLSPGKIQTTTTGIIIPALLHITGAPVSSDFRLDWLIERPKGGRRAELSIKSLALPLPQHCGSDNDWIPQLRLLSRASFSHSDDDLFGGAYRRLLALHILCIHSSKEALELNTFQPVTFNLNAFSK
17266	47634	A	17371	1	2697	
17267	47635	B	17372	25	1698	
17268	47636	A	17373	2	218	ASLRSSPFSRSLRCQGNTPERSGLPKALFCTKPSR\ADLGPAGHRRPLPSVQPG*AIPGRVSRGEKNLTNR
17269	47637	A	17374	2	2543	
17270	47638	A	17375	198	403	PQALREHSPSV*TGRQDRQLLFKDCTCQRQRDDVDSVQGKRRLHISSPQGLNSFPAVSLKLEHNVKAE
17271	47639	A	17376	58	543	VLYRSSRMCKIRVLISRPFSIVKICERVLSTQSGRHDYAAAAVSKTGQKRIHSSGTRGSGAPHS PGWWEPSDRVGVSI CFLFSLK YRLFSSCLVQPCLG PVLGNNSC SPEGPREPSPPSHGLGFPMCT* TQVPASTTQSDNGQNHNP GCP MPISPDS
17272	47640	A	17377	14	701	
17273	47641	A	17378	91	309	GRKQFPHLATGKEGCVGGQRLPCVTVELIFPAPAGAAVPRRP*L PRTAPS*LHCLPVC RMPGEAPT ARHAAWV
17274	47642	A	17379	2	2625	
17275	47643	A	17380	1	1752	
17276	47644	A	17381	3257	3412	
17277	47645	A	17382	1	1091	
17278	47646	A	17383	233	1148	
17279	47647	A	17384	1	1716	
17280	47648	C	17385	162	356	

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17281	47649	A	17386	836	2106	AKKFRKRWPLEEQEQNPVDGG AAPVTALRKRVTSQRCSLEFLE DAVGCAPAQRYTPPSAPSSTTP LGLPLT/TCGARGSWEEKSDLC PLPCRTHKHTSGSPRHKGLKKT FIKNMRQYDTRNSRIVLICAKR SLCAAFSVLPYGEGLRISDLRV DSQKQRHPSGGVSVSSEMVFEL EGVELGADGKVVSYAKFLYPT NALVTHKSDSHGLLPTPRPSVP RTLPGSRHKPAPTCSAPASTEL GSDVGDITLEYNPNLLDDPQWP CGKHKRVLIFASYMTTVIEYVK PSDLKKDMNETFREKFPVKLT LSKIRSLKREMRSLSECSLEPV TVAMAYVYFEKLVQGLKLIKQ NRKLCAGACVLLAAKISSDLRK SGVTQLIDKLEERFRFNRRDLIG FEFTVLVALELALYLPENQVLP
17282	47650	A	17387	1	2531	
17283	47651	A	17388	1	1506	
17284	47652	A	17389	34	576	
17285	47653	A	17390	112	1840	EELRVREHVTGGICGGSQMMV DLLGATTELVAVAPWVMSAA AGGKNLKSHPKVEVDIINDFI LRWNRSDSVGNVTFSDYQK TGMNDNWIKSGCQNTSTKCNF SSLKLNVEEIKLRIRAEKENTS SWYEVDSFTFRKAQIGPPEVH LEAEDKAIVIHISPGTKDSVMW ALDGLSFTYSLLIWKNSSGVVE RIENIYSRHKIYKLSPETTYCLK VKAALLTSWKIGVYSPVHCIT TVENELPPPENIEVSVQNQYV LKWDYTYANMTFQVQWLHAF LKRNPNGHLYKWKQIPDCENV KTTQCVPQNVFQKGIYLLRVQ ASDGNNTSFWSSEIKFDEIQAF LLPPVFNIRSLSDSFHIYIGAPKQ SGNTPVIQDYPLIYEHFWENTS NAERKIIKKTDVTPNLKPLT VYCVKARAHTMDEKLNKSSVF SDAVCEKTKPGNTSKIWLIVGI CIALFALFPVIYAAKVFLRCINY VFFPSLKPSSSIDEYFSEQPLKNL LLSTSEEQIEKCFIENISTIAIVE ETNQTDDEHKKYSSQTSQDSG NYSNEDESEKTSSEELQQDFV
17286	47654	A	17391	3	373	

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17287	47655	A	17392	1	432	LPRFVGQQPRPLGPLRSGSGEG CRAPGEAVRAPDYAFPIPGTRA S/PLNRFPLGGTAWPQAHPTNP KPAPAPGAQLDDPPRYSRHGLS RWGLPLQSLVLLPPLQRPMLPQ AAAPNTPWPPWTLRAGRREN AHAQRKLHLWAGKVE
17288	47656	A	17393	98	376	
17289	47657	A	17394	1	364	
17290	47658	A	17395	1	1230	
17291	47659	A	17396	892	2004	RRMSFMSSEVLVGLGMSPFQDS GLGAEESLGLDDYL/EVAKHF KPHGFSSDKAKAGLLPNGLA/ DGLVSPSNNKSKE/DAFISGTDW DVGKRWVLKEFDGCPCLGIE* PWETIARLTFLTTFGIDICDSELLP P*FQGRLIKAAPRRLNPIGHLP QKFLTKPRPGLAPFTFLQPLPL SPGVL/SSTPDSFPFSFRSWSG*K WDIH*KGD*/RKPDYTAIYVA/MI PQCIKE/EDTPSDND/SG/CMSP ES/YLGSPPQHSPSTRGSPNRSPL SPGVLGCSARPKPYDPPGEKMY AAKVKGKLDKLLKKMEQNK TAATRYRQKKRAEQEALTGEC KELEKKNEALKERADSLAKEIQ YLKDLIEEVKARGKKRVP
17292	47660	A	17397	43	1300	DSCCIQGTMLRSRTQQRPGVEG SLKQHQLHSNFSSINESVFIVS FSLNTIGSGGRGAEGER/GREPL SRPQPAGPLGGALPAPP/SLMP QL*SE*GRLQLLYLLQ/PAVC SCSRCSAPRSRCVARPAARTGL PTPAPASSP/CSRSLSRSSRLSSSC RVSCCHSLSSCCRSLSCSRSSST SSRSSSTSSSLSLSSSLSCSSCRL SCSNSFSTSSSLSLSSSLSCSSC CLSCSNSFSTSSSLSLSSSLSCS SCRLSCSNSFSTSSSLSCPGSFS CSHSLSSCSRSLSSCSHSLSSCSR SLSSCSHSLSSCSRSLSSCSHSL SCSRSLSSCSHSLSSCSRSLSSCS CSLSSCSRSLSSCSHSLSSCSHSL SSCSRSLSSCSCLSSCSRCLSSC SCSLSSCSRSLSSCLLFRRLNI
17293	47661	A	17398	288	574	

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17294	47662	A	17399	230	648	VIAPGLWMMAADIPRVTTPLSS LVQVPQEEEDRQEEVTTMILED DSWVQEA VLQEDGPESEFPFQS AGKGGPQEEVTRGPQALGRL REL CRRWLRPEVHTKEQMLTM LPKEIQAWLQEH RPESSEAAA LVEDLTQTL*DSWVQEA VLQ DGPESEFPFQSAGKGGPQEEVT RGPQALGRLREL CRRWLRPE VHTKEQMLTMLPKEIQAWLQ HRPESSEAAA LVEDLTQTL
17295	47663	A	17400	105	381	SSGFWPLRFLDVIKAVSTIAVH EKEESLWPRVAVFSTLAP/ESPP WGEAPQSAGR*SGVPEDHVHL RYRGTL SLACSSRIHPPAQLS HYKN
17296	47664	A	17401	1023	1915	
17297	47665	A	17402	3	277	QVLLQGALLLLITVAQAGRVLK LGV SREFQDLILWGKETFR/C GPGCSPALHLPQGSSIP/SSQQL *YLA AEQPLHRGPPTAPV S GAE
17298	47666	A	17403	3	299	
17299	47667	C	17404	46	398	
17300	47668	A	17405	171	403	GKNSTLQQFNLLHYSSITVAV NNPTLGNVS VFLYLFTGIHQ LVKVILRKL GK*RFGL ELASLSL LFLPPVSLF
17301	47669	A	17406	291	467	
17302	47670	A	17407	2	395	DHAYVFLGR TACYLMKAYRK VNP RIVFSSNTIETHPKDLHSC DHPFAEKTQFTVSTLDDVKN SG SIRDNYCRTSEISA VHIDTECVS VMLQAGTPPLQVK*KKNFQQR KQG*KMKWDPSDISNSMAEVL
17303	47671	A	17408	1	149	EKEIPGPWLLGAMRFRFCGLD CPDWVLA EISTLAK/IPL*SCGCS AARY
17304	47672	A	17409	555	1156	QFYNKTPSRSECPNLLHMRTE GPPGGVDQPDGHQAGWPPPEP AGQQRGRQSGCHLLQGGASPR PSCGTVHARACTPPASCPCHHR YRSHLQRGKWWPK/GLPQHTR LDHTEVLGAAEGSTVSAVP SAT RAARDHVRR LQTRKCFCKGAL LLLITAA RAGRVLFGQPQLLQF TGQGF AIDTVLGRGTGEDETHC HCLGHIA
17305	47673	A	17410	3	366	
17306	47674	A	17411	408	1702	
17307	47675	A	17412	1	2661	

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17308	47676	A	17413	2	2288	
17309	47677	A	17414	1	1992	MGDFNTPLSTLDRSMRQKVNK DIQELNSAVHQVDLIDYRTLHP KSTEYTFFLAPHRTYSKIDHIVG SKALLSKCKRTEIIRNCLSDHSA IKLELRINKLTQNCSTTWKLN MLLNDYVWHNEMKAEIKMFF ETNENKDTTYKNLWDTFKA VCRGKFIALNAHKRQKERSKIDTL TSQFKELEKQEQTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFEMISKIDRPLARLIKKKRE KNQIDTIKNDKGDIIIDPTEIQTT IREYYKHLIAIKLENLEEMDKF PYTNTLPRLNEEEEIESLNRITITGS EIEAIIKSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLLFQSIEKE GILPNSFYEASIIIPKP/DVGSSS QGNQAGERNKGYSFRRKGSQI VPVCR*YDCTFRKSHFLSPKSP* ADKQLQQLRIQNQC AKITSPI HHQQTNREPHE*TPIHNCFK E NKIPRNPTYKGC EGPLQGELQT TAQ*NKKGHKQMEEHSM LMD RKNQYRENGHTAQGNLQIQCH PHQATNDFLHRIGKNYFKVHM EPKKS PHCQDTPKQKE*SWRH HAT*LQITLQGYSNQNSMVLVLP KQRYRPM EQNRALRNNTTHLQ QSDL*QT*QKEEMGKGFPI**M VLGKLASHM*KAETGSLLYIL
17310	47678	A	17415	1	1677	

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17311	47679	A	17416	1	2178	MGDFNTPLSTLGRSTRQKVNK DTQELNSALHQADLDIYGTLLH PKSTEYTFFSAPHHTYISKIDHIV GSKALLSKCKRTEIITNCLSDHR AIKLELRICKLTQNRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLEKELEKQEQTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKEKRE KNQIDATKNDKGDITTDPTIEI TTIREYYKTLYANKLENLEEMD KLLDITYTLPRLNQEEVESLNRPI TGSEVVAINSLPTKNSPGPDGF TAKYYQRYKEELVPFLKLFQS TEKEGILPNSFYEAASILPKPGR DTTKENFRPISLMNVDAKILN KILANRIQQHIKKLIHHDQVGF PGMQGWFNICKSINVIQHINRT KDKNHMIIISIDAFAFDKIQPF MLKTLNKLVLVLARAIRQEKE JGIGQLGKEEVKLSLFADDMIV YLENPIISAQNLLKLSNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWIGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARITKSILSQKNK AGGITLPDLKLYYKAIVTKTA WYCYQNRDIDQWNRTEPSEIM
17312	47680	A	17417	1	1770	
17313	47681	A	17418	1	1101	
17314	47682	A	17419	1	1614	

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17315	47683	A	17420	1	1878	MVLALTGNKADLASKRPLEFQ EAQAYADDDSWLFMETSAGK AMNVNEIFMAIAEKLPKNKPN NAAGAPDRNQGYLSACEFSGR KLPKQTTHKHKQSLRTKLCGAS YASSNLIPRKL YEPLLVIPRKTG SGVDLQQTPTDLQLWVLTVRR KSNKQKGYPHQNPICMLPSSKT KDFKPTKIKRDKDGHYIMVKG SIQQEELTVLNINAPNTGAPRFI KQALRDLQRDLDSHTIIMGDFN TPLSTLDRSTRQKVNKDIQELN SALHQADLDIYRTLHPRSKDY TFFSAPHHTYSKIDHIVGSKALL AKCKRTEITRNCLSDHSAIKLEL RIKKLTQKCSTTWKLNLLND YVWHNEMKAIEIKMFFETNENQ DDTTYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDILTSQKE LEKQEQTTHSKASRRQEITKIRVE LKEIKTQKTLQKINESRSWLFE KINKIDRQLARLIKKKREKNQID AIKNDKGDIITDPTEIQTITREY YKHLAYAKKLENLEEMDKFLDT YTLPRLNQEEVESLNRPIGTSEI EAIHKS LPAKSPGPDGFTAIFY QRCEKELAQFLRLFKSTEKEGI LPNSFYEDSIIL/LPKPGRDITK KENFRPISL
17316	47684	A	17421	1	1761	
17317	47685	A	17422	1	1875	
17318	47686	A	17423	1	1611	
17319	47687	A	17424	1	4539	
17320	47688	B	17425	1	6294	
17321	47689	A	17426	2	1913	
17322	47690	A	17427	1	1026	
17323	47691	A	17428	1	2112	

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17324	47692	A	17429	1	1884	MENGFDELREEGFRSSNYSELO EEIQTGKGEVKNIEKNLDECITR IPNTEKCLKKLMEKTKARELR EECISLRSRCDQLEESVSMED EMHEMKREGKFREKRIKRNEQ SLQEIWDYVVKRPNLRLIGVPED RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFSSAPH HTYSKIDHIVGSKALLSKCKRT EITNYLSDHSAIKLELKIKKLTQ NFSITWKLNNLLNDYVWHN KMKAEIKMFFETNENKDDTYQ NLWDTFKAVCRGKFIALNAYK RKQERSKIDLTSLQKLEKEQE QTHSKASRRQEITKIRAELEIE TQKTQKINESRSWFFERINKID RPLARLIKKKREKNQIDAINKD KGDITTDPTIEQTTIREYYKHL TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIHSL PTKSPGPDGFTAQFYQRYKEE L/RNKIPRNPTYKGCEGPLQEL QTTAQGNKRGDKQMEHSML MGRKNQYRENGHTAQGNLQIQ CHPHQATNDFLHRIGKNYFKV HMEPKKSPHRQVNPKEQSW RHHAT*FQIILQGYSNQNSMVL VPKQRYRSMEQNRALRNATY LQLSDL*QT*EKQAI
17325	47693	A	17430	1	1695	
17326	47694	A	17431	1	3779	MELKTKARELREECRLSRSRN QLEERVSADEEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTPQRYSSRRATPKHIVRFT KVENMKQMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
17327	47695	A	17432	1	735	
17328	47696	A	17433	1	2541	
17329	47697	A	17434	1	1461	

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17330	47698	A	17435	2	429	AACAAAMSLVPEKFQHLRLV NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRLKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
17331	47699	A	17436	1	615	
17332	47700	B	17437	264	556	
17333	47701	A	17438	1	406	FFFFFLQKVGIYLIHKITFQQHRL WVTSAAFLSLSSMAAVGTSSSL SENSGPGHGGKQTF*GP/EGTDI PEGRHHFSAQAFSVVAGRGT AALLHGSHVPQGR/SRIGSRSGG PPSHPDTCSSSHSAGRSCPHSC TG
17334	47702	A	17439	3	3484	
17335	47703	B	17440	42	367	
17336	47704	B	17441	203	382	
17337	47705	A	17442	22	266	YRDLPHLLNSDLIFNMSTSLRE TMILIRTLRVPL/PLHGVIPIS KIQGLVLNALNQVESIFQVSF NLFDPDAFQHVIRA
17338	47706	A	17443	1	1137	
17339	47707	A	17444	1218	1482	QSPWPSSLRGDVSITPNLIFSCL SIGWPFCLV/SFC*PKK*TFQGV GSEVYDVVKHFASCVLCHKQMN KLNLVFRNTYFVALLSTELFEN
17340	47708	A	17445	2	377	
17341	47709	A	17446	1	211	
17342	47710	A	17447	2	732	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPGGFRDSPHLFGQAQ DLVHFSSPGTLVVQYMDLL ATSEASCQOATLDLNLFLANQ GCKRVGIALGVLQTQHTGTPQP VAYLSKETDVAAGPLTAILL LAFGPCIFNLVVLVSSRIDA LQMVLMQEPQMSSTNNFYRGP

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17343	47711	A	17448	1	3003	MPGAQDLQPTMPEPPHPQWAP TWPEPPRRVPPPAPRRVPPLTA QGLSVDQSRGKGFSDDPDRYID VLQGLGQTFDLTWDRVMLLLD QTLAFNEKNAALAAAREFKDT WYLSQVNDRMATAERDKFPSPG QQA VPSMDPHWDLDSYGDW SHK YLLTCVLEGLRRIRKKPMN YSMMSTITQGKEENPAFLEQL WEALRK YIPLSPKSLEGQLIKD KFITQSAADIRGKLQKQSLVPE QNLEALLNLATSVFYNRDQ
17344	47712	A	17449	5	624	IQPILAYPHPKTLKQLWGFLGIT /GFCPVWIPRCSKIAKSLYTLIKE TQRANTHLVEWEPEAETAFTK LKQALVQAPTLSLPTGENFSLY VTERAGIALGVL TQTRGTTQP VTYLDKGEPMKDCQCIIVQTY ATQDDLLEVPLANPDNLNYTD GSSFVENGIRRAGYAIVSDVTIL ESKPLPPGTSQAELVALTRA LELGKGE
17345	47713	A	17450	636	2628	SNDRTEDDCGKHHPFMSSPPTEP WVCLIIEGQEIDFLD TGTTFVS LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFV MPESPTPLLRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPIG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYLLSQVPEAEW FTVLDLKD
17346	47714	A	17451	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVNPYTL LSQIPEEAESFTVLDLKD AFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDL LLL ATSEASCQQATLDLLNFLANQ GCKRVGIALGVL TQTHGTTQP VAYLSKETDVA AK

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17347	47715	A	17452	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKSP/GVQKPNGQW RQVQDLRLISDAVIPLYPVAVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
17348	47716	A	17453	1	369	
17349	47717	A	17454	1	1632	
17350	47718	A	17455	636	1837	SNDRTEDDCGKHPFMSSSP(TEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRSSRSVTIQILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPVQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPEEAEW FTVLDLKDAFFCIPLHSDSQFL AFEDPTDHTSQLMWMVLPQR RDSPHLFGQAQDLGHFSSPG TLVLQYSEIAKTLTYLIKEMER ANTHLVEWEPEAETAFETLKQ ALVQAPALSLPTQGNFALYVIE RAGIALGVLTQTHRTTPQPVAY
17351	47719	A	17456	2	52	EISFVENGIQAGYATVSDVTVL ESKPLPGTSAQLAELVALTRA FELGKGRINANTDSKYAYLIL HALAAIWKEREFLISGGTPIKYH KEIMELLHAMQKPKEVAVLHC QSHQKG*EWDITKGRILCHS
17352	47720	A	17457	1625	2505	PGVQKPG/QWRLVQDLRLINEA VIPLYPVVPKPYTLFSQIPKEAE SFTVLDLKDAFFCIPLHSDSQFL FAFEDPTDHTSQLTWTVLPQR RDSPHLFGQALVQDLGHFSSPG TLVLQFVDDLLAASSEASCQQ ATRDLLNFLANQGYKASKSKA QLCLQVQVKYLGILARGTRALS KKRIQPILAYPRPKTLKQLRGFL GITSPCRILQIPGYSKMARPLYTL IKETQRANTHLVEWEPEAETAF KSLKQALVQAPALSLPTRQNF LYVRERAGIALEVLQTHGTTL QPVAKG
17353	47721	A	17458	1	2415	

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17354	47722	A	17459	2646	5167	KNSGHILGTCPGYRYAKGKET GKEIKGPQNPPGYRLCPLQAV GGGEFGPTQVHVPFSLDLKQI RVDLGKFSDDPDRQYPLRPEAH EGLQDILRYLKVQGLVRKCSP CNTRILGVQPKPGQWRLVQDL RFINEAVIPLHSVVPNSYTLSSQI PEEVEWFTVLDKDAFFCIPLH SVCQFLFAFEDPTDIITSQFTWT VLPQGFDRDSPHLFGQILAQDLG HFSSPGTLVIQYVDDLLATSL EASCQATLDLNLNLANQGYK ASKPKAQLCLQQVKYLDLSLA RVTRALSKERIPILACPRKTL KQLRGFLGITNFCQLWIPGYSE MARPLYTLIKETQRANSHLVER EREAEATFKTLKQALVQALALS LPTGQNFSLYARERAGIALGILT QTHGTTQPVTYLRKLIYSFVE NGMRRAGYAIUSDVTVPESKPL PPGTSTQLAELVVLTALELRK KKRINVTNDSKYAYLILHAHAA IWKEREFLTSGGTPNKYHKEIM ELLHAVQKPKEVAVIPQSHQK GEEK/EAEGNRRADAEAKIAA RRNLPTIIPMEGPLVWNNPVQE IKPQYSLTKTEWGLSQGHSFLP LGWLTTLEGKAGRATPNPRNV YFPLHLRGLRTGRLPLSQSTRA QEMTLVRPRPSSPPPEKAAEG RGRRCSETKLRRRLFRPLRTP LCATAPLAASVAAVLAAAPAA
17355	47723	B	17460	1	2208	
17356	47724	A	17461	2	168	
17357	47725	A	17462	890	1034	
17358	47726	A	17463	386	619	TFITGDCGLGKN/HIFDGCGLVLS EVGLVLDCSNQRFKAGPA*LCQ SPFKNIL*ESLPMCMCRQLEKH AHPQGLCHTQVT

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17359	47727	A	17464	123	2169	DLGHRGSRMASVALEDVAV NFTREEWALLGPCQKNLYKDV MQETIRNLDCVGMKWKDQNI DQYRYPRKNLRCRMLERFVES KDGTCQGETSSQIQDSIVTKNT LPGS/VGPYESRMSGVIMGHSS LNCYIRVGAGHKPHEYHECGE KPDTHKQRGKAFSYHNSFQTH ERLHTGKKPYDCKECKGSFSSL GNLQRHMAVQRGDGPYKCKL CGKAFFWPSLLHMHERTHTGE KPYECKQCSKAFSYSSYL RHE RTHTEKPYECKQCSKAPFPYS SYLRHERHTHTGEKPYCKQCS KAFPDSSSLIHERHTHTGEKPYT CKQCGKAFSVSGSLQRIETTHS AEKPYACQCGKAFHHLGSFQ RHMIRHTGNGPHKCKICGKGF DCPSSLQSHERTHTGEKPYECK QCGKALSHRSSFRSHMIMHTG DGPHKCKVCGKAFVYPSVFQR HERHTHTAEKPYCKQCGKAYR ISSSLRRHETHTHTGEKPYKCTLG KAFIDFCSPQNHKTHTHTGEKPY ECKECKGKAFSRFRYL SRHKRTH TGEKPYECKTCRKAFGHYDNL KVHERHSGEKPYECKECKGKAF SWLTCFLRHERIHMREKSYECP QCGKAFTHSRFLQGHEKTHTG ENPYECKECKGKAFASLSSLHRH KKTHWKKTHGTENPYECKECKG KAFASLSSLHRHKKTHWKKTH
17360	47728	A	17465	1	1317	
17361	47729	A	17466	1	336	
17362	47730	C	17467	51	353	
17363	47731	A	17468	190	348	YAIHIMDVHTVRSLYYFNCFRY *ACYCCHYLTDIPEITKLSGCSY GGTSLIWG
17364	47732	A	17469	1	1716	
17365	47733	A	17470	1	840	
17366	47734	A	17471	699	1283	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTPPHCSFSICFV C/FKNVDLKGFEPDVRLLLTKYS NSNGSQSPWMEEQIRDAGERV HSAFSLNWGKPLVFEKDRPYSV SVFIGLFLPMAEKTGPLKGNPG GEFLLFLRQIQLVWLPAAAGIMT EHYFPITATQALEINNAISTIMEI FPTVSFASQWITASFSV
17367	47735	A	17472	300	461	
17368	47736	A	17473	1	2451	

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17369	47737	A	17474	2	3542	
17370	47738	A	17475	1	1156	
17371	47739	A	17476	1	1176	
17372	47740	A	17477	1	257	
17373	47741	A	17478	295	1353	
17374	47742	A	17479	3	1772	
17375	47743	A	17480	2	284	
17376	47744	A	17481	1	141	
17377	47745	A	17482	1	506	PHSPLWKTLCPSSGVC CGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFVGMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCPSSGVC CGFVT LFCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFVGMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
17378	47746	A	17483	1	741	
17379	47747	A	17484	1	993	
17380	47748	B	17485	277	416	

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17381	47749	A	17486	686	2400	TGMSVDEKPDSPMYVVESTVH CTNILLGLNDQRKKDILCDVTLI VERKEFRAHRAVLAAACSEYFW QALVGGQTKNDLVVSLPEEVT RGFGPLLQFAYTAKILLRENI REVIRCAEFLRMHNLEDSCFSF LQITLLNSEDGLFVCRKDAAC QRPHEDCENSAGEEEDDEETM DSETAKMACPRDQMLPEPISFE AAAIPVAEKEEALLPEPDVPTD TKESSEKDALTYPRYKQYL ACTKNVYNASSHSTSGFASTFR EDNSSNSLKPGLARGQIKSEPPS EENEEESITLCLSGDEPDAKDR AGDVEMDRKQSPAPTPTAPA GLCLERSRS/GNYGQPH/VGQK EVSNFTMG/PLRGPGLALCK QEGELDRRSVIFSSACDQVSTS VHSYSGGARFLATEHQEPGLM GDGMYNQVRPQIKCEQSYGTN SSDESGSFSEADSESCPVQDRG QETGSTDLRLSTKLQSCSGPM FKGPTATVAATESWGTVLQNIP LGCAGTGEEVYTNPPPRGRAA LVPRSPLTVYSSSLPEHQTSLKQ CAQAGPGVCLLVHNHWQLLEG
17382	47750	A	17487	1	1089	
17383	47751	C	17488	295	348	
17384	47752	A	17489	1	711	
17385	47753	A	17490	1	1248	
17386	47754	A	17491	135	259	
17387	47755	A	17492	434	506	
17388	47756	A	17493	3	227	
17389	47757	C	17494	3	236	
17390	47758	C	17495	25	153	

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17391	47759	A	17496	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGKTDGSGWRMTVDYCKL NQVVTPIAAAVPDVVSLLLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTLDLLVRHLCAWGWEINPT KIQGSSTS VKFLGVQWCGDCR DVPSKV KDKLLHAPPTTKKEA QHLTGLFGFRKYIPYLVLLC PIYQVTRKAA SFQWRPEKEAL QQVQAAMQAALPLGPYDPAGP MVLEIAVADTEAVWGH/WHSA SFPSPCHCPMGP*TKWP*WQG WRLCMGSATWTSTHSG*PGYG HQ*VPNLPA AETNTEPAI*HHS/ SRRSASYLVAG*LYWTS CIMER AEHLLWIWVCLSCMQCFQCD YHPWTHGMPYPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRIVERPFEIT TTMPTSQESRVQESRGSGSGT THHHHP**STSNIFASCFYGITFC WSRGLSSRRGRNAATRRQNNISIK L*VKIATWTLWAPPTSKL
17392	47760	A	17497	2	1120	PSKVKEKLLHAPPTIKKEAQR LVGQLGFWRQHHPHGLALLWLI YQATQKAASFEGPEQEKALQ QQVQAVQAALPLGPYDPADPM VLEVSADRDVWVSLWQAPIG ESQQRPLGFWSKALPSSTDNYS/ CFRCAIHY*FMGCCQ*FGWIVRD LEEA*LENW*QRNLGKRYVDG PL*VVKNNWKDICIPECSPPTGDL SRGGF**SSG*DDPFCGHHSASF PSPHPCRPMPGP*TKWPWWQE* RLCMDSATWTSTHQS*PDYSH C*VPNLPA AETNTETSIWHHFS G*SASYLLAG* LH*TSIMEKAE VSPHWNKIISLWIWVCLSSMQC FCQDYHPWTHSMYPPLSWYST QHCLSLQRERHSLYR*RSAAVVG ACS
17393	47761	A	17498	1	1908	
17394	47762	A	17499	1	915	
17395	47763	A	17500	2	670	
17396	47764	A	17501	1	1332	
17397	47765	A	17503	151	674	
17398	47766	A	17504	1	825	
17399	47767	A	17505	134	447	
17400	47768	A	17506	98	778	

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17401	47769	A	17507	1	830	MHCFFIFSAAWFCLWSISLHLV ERPDMAVLLFPFGLRLGLMLQ CPRGYWPVLLGAEWLLIYWLT QAVGLTHFPLLMIGSLLTLPLV ALISRYRHQRDWRLLLLQGAA LTAAALLQSLPWL RHGKESWN ALLLTGTG/EPDAGPDMSGVLA LSRQ*HLAAARSVTGFSANQLA RATSGLVLAACVYQSLAPVGIA GRTVALYAILSGAADYRAGLA LWLARGADCDVDERHRADRH QSWRDLPLWTYCSGDCDSRHGA QGQKARAPPKHDQFPFAIFRG
17402	47770	A	17508	2252	2772	RSKTTAFTPLRVRTSAHARPAG PAPIIATFLPVCFTPDISGRQPISN ALSLI*RSMLPMVTAPNSSFRV QEPS/SQTVLRADSSANFRQGV GLVRQFRFRKNTPLVGELQPVR DVVVYRAFFLAVVVAARQAA VSLRFGLAFGKRLVFNKLNFA DLQRFLWRINALQVDKLITF
17403	47771	A	17509	539	1077	
17404	47772	C	17510	192	396	
17405	47773	C	17511	10	294	
17406	47774	A	17512	2	379	KRPGSGITEATSSRRQRPTRLQ GQLPGQEKRVLKATEGIANPS WGWGGAVSPLRASLTSRLHKKI NNHYNTENWKLPIKDSVHLIPSP QAPSMFPPLANPPWAAPHREK MWNPQIQGTNCIWVCGP
17407	47775	A	17513	291	590	
17408	47776	A	17514	187	589	VLSFLIHRWEGDKDLSLGNFES QTPQPSRRFICAFPPWENPS*EPS YPSISDPGFLILLPSKGDVWIHL GPIFSKKPLYS*SSFLVIFYVPTP SFLFLGYKFPLAHAVFRVEPTLS LLIQNSHCHGCYTYPDGPE
17409	47777	A	17515	1509	1748	IGVVREGIPVLCFLFSKGMLPVF AHSV**YWLWVCHR*LLLF*DTLS HQYLIY*EFLA*SVVDFCQRPF HLVLDFFWLVS
17410	47778	A	17516	152	568	CQLELSCMKCPTFPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSGDGSFV CKHPTGAVTFPSGMLPGSMTIF KILILPIHEHGMFFSLSVSSFVSL

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17411	47779	A	17517	152	568	CQLELSCMKCPSTPVGRSLPVG CTRSQTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPGLSMTIF KILILPIHEHGMFFSLSVSSFVSL
17412	47780	A	17518	152	479	CQLELSCMKCPSTPVGRSLPVG CTRSQTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGCPHTLQA
17413	47781	A	17519	1	474	
17414	47782	A	17520	1326	1712	FLYVIKALGKKQLQFGQQLIPS IELLDYLINPAGSGCVSLWKLNK PQCYLIHFSGLTLSWKVHTIL LEGHYEFLEYAADR*PICLFSW KERQLVSFLDYSLHLLGFSFYV VFFFLLYLLVRLCWDL
17415	47783	A	17521	18	236	
17416	47784	A	17522	281	1005	TGWSPLQLSKATVARLPLWIPP LWAGHLGELWLASGEYPSGLK LPEEGTGSNLRCSAASAGDTQA NRVWSGPAANFSRPAEAPAF HALRGPSVHCSPLCVHEFSSFS LISENMQYLVFCSGVRFRLIMVI SSIHILCLVPKRTRVLGRLSLTC FRFLRGPKERITIPHSSAPPLGH VIAIPL*SFMKPSPEADAPMTG SFLKSPSEADTGATLPVQSVVPI PLSILPILEVGGVLF
17417	47785	A	17523	1	1524	
17418	47786	A	17524	881	1108	SRKMGAPNA**SAWSWSREGL AAP*SMFSSLSADSSADCKLPE GKVPASSTGLTARASKDLVFC CCFSISARAS
17419	47787	C	17525	1	867	
17420	47788	A	17526	203	514	SSSTARPSQTSSAEESPTSWYRG DNPSKPMDDLAVGVFGAIVGA ASVLGNAPLDGIETGCCGWSST NAEHTGLWLQILRKEGLKDL*N GTVPRLGRTWASPWM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17421	47789	A	17527	1	1578	MAKKEQLLSAAPSKTNAEGQEI PSGVYTRALGFKHKTGQPFQ TPSPQEFILYTNDTNWASKTE PFTPLERGLKPGSQESSGWHLV GTPLGRSFQRKEQAAIFAVLQP PLVIPRQTGSGVDLQQTPTDLQ KRVLTVRRKTNININKDDHA KTTSGHQQRPKVDKSTKMR KNQCKKATNSKNQNVSSPPKD HNSSTAKEQNWMEFDFKLTE VGFRSSQFDQVEERISDIEDKLN EIKHEDKIREKRMKKKEQSLQE IWEYVKRPNLRLIGVPESDGEN GTKLENTLQDTIQENFPNLARQ ANIQIEIQRTQRYSSRRATPR HII/E*IHQG*NEGKT VKGSQRE K*GQEI PSGVYTRALGFKHKT GQPFQTPSPQEFILYTNDTW NASKTEPFTPLERGLKPGSQESS GWHLVGTPLGRSFQRKEQAAIF AVLQPPPLVIPRQTGSGVDLQQT PTDLQKRVLTVRRKTNININK KDDHAKTTSGHQQRPKVDK STKMRKNQCKKATNSKNQNVSS SPPKDHNSTAKEQNWMEFDFKL TEVGFRSSQFDQVEERISDIEDK LN EIKHEDKIREKRMKKKEQSLQE IWEYVKRPNLRLIGVPESDGEN SDGENTLQDTIQENFPNLARQ ANIQIEIQRTQRYSSRRATPR RATPRHIGRFTK VEMKEKRLR AVREKSRVTHKGKLRITADLS
17422	47790	A	17528	738	1323	ATGGHSNQRRS*KLSKKFRR MYN*NNQYREVLKGADGAEN QGSRTTETLCM*RMQRSLQFD SDLVRHQKHSGEKPYECCEC GKAFRGSSELIRHRIHTGEKPY ECGEYSYECIACGAFGRSST LIENQRIHTGEKPYECNECGKSF NQSSALTQHQRHTGEKPYECS ECKRTFRHRSGLMQHQRTHTR
17423	47791	A	17529	1	656	MAGKPEYDKTISTIVLNALNA LGVSAEASGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTLLPGITH EQVCEAITEAFFAHYGERVEAE IISPNKTPDLNFAETFAQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDV/GKRPYHPRPGVYR QPQPRAAGSPRRRTTARLPFLSL

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17424	47792	A	17530	1046	1401	LLDIRMLCHGKGVIIHVLRLQF LLGRPAPHRLHAALQLPLGLSLH GTLALGLWLQLRQLLLQLQPF GISGCGSGCDPEQDCV/DCGRG CWPRKCPQGSAPSRSRGAPHR PRPQQAAGRG
17425	47793	A	17531	112	1170	YPPFHLDISTDTVCVCTKFLCC VFQLHQVIYVLL*TGYSILFDAD DLWMGFLRGHPFC*CYCLFVFS FPSNSQAPLLQVCWSLLEVHSR PCSPGYHQRRQLNSKSDCCLLLP LEALSQSGTHQMPAGALLYEM SVNPCWEEHQTDLFTHESTFI RSKTQKKVPDKLLDSSVTPLF KITENIGCVMTGMTADSRSQVQ RARYEAAANWKYKYGYEIPVD MLCKRIADISQVYTRNAEMRPL GCCMILIGIDEEQGPQVCKCDP AGYYCGCKATAVGVKQTESTS FLEKKVKKKFDWTFEQTLETAI TCLSTVLSDFKPSEIEVGVTTV ENPKFRILTEAIDAHLVALAER
17426	47794	A	17532	2244	2432	DGQQLIALHRLALRELQQAAPH AGIAPAGENPV*WWFRNRQNP LIALRSLPAFQSGNLSQCLH
17427	47795	A	17533	251	546	SSISDILSSA*SIRLLILVYAS*SS RAVFFSTIRSFIFSKLVILVSPSC NLLSRFLASFHWVVRTCSFSSKEF VIITHLLPTSVNSSYSLSFSFVHF G
17428	47796	A	17534	597	1092	FTNQKESRTRWIHSRILPEVQG GTGTIPSETIPINRKRGNPP*LIL* GQRHSDTKAG/RDITTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR K/CNKCNPAYKQSQRQK/HT*L SQ*MQKKPLTKFNNPSC*KLSIN *VLVGRISK
17429	47797	A	17535	1	2153	
17430	47798	A	17536	2164	2427	
17431	47799	A	17537	1	322	GPRWGRVVRHAPDPVRIPSSGP LLPPRFYPRYVLP/PPSASTSRPC QRTSASGRCPMPH/DTVKATM PIWV/DPPVPDHYEGEAHQGIL VTHPHHQRCPAGHRHRVVF
17432	47800	A	17538	1	627	

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17433	47801	A	17539	583	1145	GNGRTVDTQVCQAPITQSLSER PADPNPGEQDAEAGPASRRDT EAERLRFQFQYHVASGPILA VGQLWTLCRQWLRPEARSEQ MLEVLVLEQFLGALPSKMRTW VQSQGPSCREAAASLVEDLTQ MCQQEGLAAHPSHDTAIRGIPR LAASWETASAMEATADARQKR THTEKEAWLLEAPHELA
17434	47802	A	17540	1	1301	
17435	47803	A	17541	1	1232	
17436	47804	A	17542	1	549	MNTANVEKPYVQKYQTAFVLV MKHRQCQLASHLVQNYRS/IQL WAWELQIDPGTTCPSENTITQG SKKPYPDFVARLRDAAQNSITD ENARKVIVELMAYGNANPECC SATKPLKGVPTGSDVISDQKA VGVQAAKRRNRDTGLGRSAR KSGKGVTRMLPKHASMILDGG GPATSPSCCRFL
17437	47805	A	17543	146	510	SPYWNKGKSPGWLAES/FKRPV FRQGAKEPYPDFAAASLQDAAQ KSITNENARKVIVELMAYENAN PECQSAIKPLKGVVPVGSVDVISR GFQGGQPPLSQVLQGMGQLPQ YSNCPRPQAAVQQ
17438	47806	A	17544	2	828	
17439	47807	A	17545	1	420	
17440	47808	A	17546	1	1947	
17441	47809	A	17547	1	399	PLKVNIYPDSKYAFHILHHHER GFLTTOGSSIHNASLIKTLKAA LLPKEARVIHCKGHQRASDPIA QDNAHTDKIAKKAASIPTYTPH FQFFSSSATPTYSPAETSTYQS LPTQGKWFLDKETYFLPASQ
17442	47810	A	17548	1	2382	

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17443	47811	A	17549	1	2194	MAPEQGRVSIQLTFIEYHGYSI FVVKGDLPCDEADQLLQMIRV QQMHRPKLIGEELAQLKQQRV HKTDLERVLEANDGSGMLDED EEDLQRAIALSRQEIDMEDEEA DLRRAIQLSMQSSRNISQDMT QTSGTNL.TSEELRKRREAYFEK QQQKQQQQQQQQQGGDLGGQ SSHPCERPATSSGALGSDLALLL TQSLFGSLFTWTRVTFGAEDPG QEDSFRRRVPCPCPHSVRRSTY DLGSSDQPAQGTSHFEQIGLLL TRLSPVILPQPPVPHPIILLSPPP HTVSGQLFSLVTSPLPAQQFLL KEVAGAEGLAKVIPTCPVPLLG QDILTKLSASLIIPGLQPHLIATL LPNPKPPSPPLPVSPNLPQVW DTSTPSLATDQTPITIPKPNHP YLAQCHYSIPQLALRGLKPVIT RLQHGLLKPINSSYNIPLPVQ KPDKSYRLPQDLDLINQIVLPIH PVASPHIIPDTTDPDHCISLIHL AFTPEPHTSFFPIPHDHTWFID GSSTWPNRHSPAKVGVAIVVSS TSILEATALPSTTSQQAELIALT RALALAKGLHVNIYTDKSYAF HILHHNAVIWAERGFLSTQRSSI IIASLIKTLKKAALLPKEAGVIH CKGHQKASDPPIAQGNAYADKS DNGLAFTSQI//HKQFLRLVFS GTFIPLTVLNLQERTGQYFYLLP FTELEPVLEKLQGTVHLNFYMD
17444	47812	A	17550	1	355	
17445	47813	C	17551	99	335	
17446	47814	A	17552	21	447	LGPLPFLSPCLLHCQGRKLCG HHEEARRRKNVSIPIKEAGIHC KGHQK/A/SDPIAQGNAYADKT KFLDLAFPPRLSFTCQITQAVS QALGIQWNHLTLTILNLQKRIR ACPDATGYSPFELLYGCSFLL GPSLIPDTSTPT
17447	47815	A	17553	119	239	TQKGQRAALFLICILSPSPPLPTL GKNFKN*IPALKPHNRI
17448	47816	A	17554	1	798	
17449	47817	B	17555	460	1059	

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17450	47818	A	17556	3	1476	IP*TCPVPLLQGDILTKLSASLIIP GLQPHLIATLLPNPKPPSPPLV SPNLNPQVWDTSTPSLATDQTP ITIPLKPNHPYLAQCHYSIPQLA LRGLKPVITRLLQHGLLPINSS YNSPILPVQKPKSYRLPQDL LINQIVLPIHPVASPHIIPDTTDP HDCISLIHLAFTPFHTSFFPIPH DHTWFDGSSWPNRHSAPKV GYAIVVSSTILEATALPPSTTS QQAELIALTRALALAKGLHVNI YTDSKYAFHILHNAVIVWAER GFLSTQRSSIIASLIKTLLKAAL LPKEAGVIHCKGHQK\ASDP QDNAYADKLAKKAASVPTSVP HGISQAPPLPTHQARYWQIDF THMPRVKLLKYLLVWVDTFTG WVEAFPTGSKKATAVISLLSDI IPQFSLPTSIHSDSRLAFISQITQA VSQALGIQWNLHISYRPSQSSGK VEQTNGLLKTHLTKLSLQLKK DWTVLLPLALLRIRACP
17451	47819	A	17557	24	594	VGSGDLWPWEGNPLSSCSLLHEK DPPTSGPQTDQPKHLTNFKS GCSSPGPARSQFFLSLRSSTL*SF YHLPSSHLVCLTVSFRD*PSPTC PAIDS*KGG/CELKA/RVKEHFC HDLPASSMQSNYPVHDSGHILT TGFSLFKPTLNIEYSTGHAPYHV RSACFPFAFCHDCQFPEASPEAE AAAILSVQPAEP
17452	47820	A	17558	1	1152	
17453	47821	C	17559	301	462	
17454	47822	A	17560	1	423	
17455	47823	A	17561	421	856	KLINLFSNFCYSRQFLSFSSTL YFVWVFCYNRCCFSK*RMIVHI TNRDINCQIAYARIEGDMIVCA AYAHELPKYGVKVGLTNYAAT YCTGLLLAHLRLNRFQMDKIC YLDAGLARITTTGNKVFGDLDG GLSIPQSTK*FPGYD

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17456	47824	A	17562	3	1082	GPLCIALALQEFGTRRRWACRS LSSSGRRSLFRRMGSVKAVKNK AYFKRYQVKFRRRREGKTDYY ARKRLVIQDKNKYNTPKYRMI VRVTNRDINCQMLYA/RRIEGD MIVCAAYCTPNLPKIWV*RVGL TNYAAAAYCTGLLLAARRLLP*/ RFGMDKIYEGQV\ELTGDEYNV ESIDGQPGCLPPAYL\ DAGPCSE PTHWPLKFFGAPEGKL WMGGL SIPSQYPNRFPGYDSEKQRNFN AEVHRKAHSWGQNCRCFTWR YFMEED\EDAYKK'QFS'QYIK\ NSVT\PDMMEEEMYKKAHAAI RENPVLWRRPK\KEV\KKRW NRPKMS\LAQ\KKDRVAQKKAS FLQSSRSGLLES\TPAIFP
17457	47825	A	17563	2	4967	
17458	47826	A	17564	56	284	RQTRRAAGIVRGDCPASSPTNC DLGQC/NSTS/LEPRFVQTVHLL CPWT/GGSSPLLAARGLSPVSL GPLKPMVSCAGR
17459	47827	A	17565	1	3525	
17460	47828	B	17566	35	3691	
17461	47829	B	17567	80	3787	
17462	47830	A	17568	225	507	
17463	47831	A	17569	2	2621	
17464	47832	A	17570	14	1658	
17465	47833	A	17571	1	3654	
17466	47834	B	17572	1	3570	
17467	47835	A	17573	1	3663	

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17468	47836	A	17574	485	2347	TEPKTKTT*LSQ*MQKRPLTKF NNTSC*KLSIN/IVLEVLAIRIQ EKEIKGQLGKEEVKVSFLADD MIVYLENPTVSAQNL.LKLIGNF SKVSGYKINVQKSQAFLYTNRR QTERQIMSELPFTIASKRJYLG QLTRDVKDLFKENNKPLLKEV KEDTNEWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRACIAKSI FSQKNKAGGITLPDFKLYYKAT VTKTAWYQWYQNRDIAQWNRT EPSEIMLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KVKLDPFLTPYTKMNSRWIKD LNVRPKTIKLEENLGI TIQDIG VGKDFMSKTPKAMATKAKIDK WDLIKLKSFCTAKETTIRVNRQ PTTWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDV NRHFSKEDIYAAKHKMKCSS SLAIREMQIKTMMRYHLTPVRM AIKKSGNNRKIQ/GGIWCDRI L* R*TTCTCRVAKEIQSL*RRJ/WKRL QRTL SIPVLDAV*PPMF*ASVID TMTI*CFEARDTCFTLTLESFWD MHRCLAASKGIGLLC*PLIWH MSLMGVKSPPFVFSCLWTS AV
17469	47837	B	17575	1	3354	
17470	47838	A	17576	1	3297	

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17471	47839	A	17577	1	2563	MKAIEIKMFFETNENKDDTTNQNLWDAFKAAEEVESLNRPTTGAEIGAIHNSLPTKKSPGPDGFTAEFYQRYKEELVPFLLKLQFSIEKEEILPNSFYEAASILPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQVGFFPGMQGWFNIRKSINVIQHINRAKDKNHMIISIDAEKAFDKIQPFMLKTLNKLIGDGYFKIIRAIYDKPTANIILNGQKLEAFPLKTGTTRQGCPLSPLLFNILLEVLARAIRQEKEIKGIQLGKEEVKLSLFADDMMIVYLENPIVSAQNLLKLISNFSKVSQYKINVQKSQAFLYTSNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPKVIYRFNAIPIKLPMTFFTELEKTTLKFIWNQKRAHITKSILSQKNKAGGITLPDFKLYKATVTKTAWCYQNRDIDQWNRTEPSEITPHYTYNYLIFDKPEKNKQWGKDSLFNKWCWENWLAIWRKCLKDPFLTPYTKINSRWIKDLNVRPKTIKTEENLGITIQDIGMGKDFMSRTPKAMATKAKIDKWDLIKLSFCTAKETTIRVNRQPTTWEEKIFATYSSDKGLISRIYNELKQIYKKKTNNPIKKWEKDMNRHFSKEDIYAACKHMKKCSSLAIREMQIKTTMRYHLTPVRMAIKKSGNN
17472	47840	A	17578	1	3514	MELKTKARELREECRSLRSRCDQLEERVSAEMEDEMNMKREGKFREKRIRNEQSLQEIWDYVKRPNLRLLIGVPESDVENGTKLENTLQDIIQENFPNLARQANIQIEIQRTPQRYSLRRATPRHIIVRFTKVEMKEKMLRAAREKDRSTRQVKNKDTQELNSALHQADLIDIYRTLHPKSTEYTFFSAPHHTYSKTDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRIKNLTKSRSTTWKLNNLLNDYW
17473	47841	A	17579	1	3693	

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17474	47842	A	17580	1577	3354	TEPKTKTT*LSQ*MQRKPLTKF NNLSC*KLSIN/IVLEVLAIRIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPVSAQNLLKLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPSGDVGLADFSPSH TLKTQFFSCLAEFAAASCFQR MNGFGMAAMTTTTYSTGAESPL PSCSIDQGGDTKLHRRASPGRT FPAAAGIPAAAA PDGPPLSLH KLWFPVELGGRALPRAESHGE VAALGVMVVAQGGKNQGEA RSTPWLRPTSHLPCSSSSA WW TEQTAHPLLLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLV DVCFTT VTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
17475	47843	A	17581	1	3042	
17476	47844	B	17582	1	3384	
17477	47845	B	17583	1	3264	
17478	47846	A	17584	1	3780	
17479	47847	A	17585	1	3165	
17480	47848	A	17586	1	3894	
17481	47849	A	17587	1	3345	
17482	47850	A	17588	523	3981	
17483	47851	A	17589	1	3429	
17484	47852	A	17590	1	3921	
17485	47853	B	17591	1	4797	
17486	47854	A	17592	1	6499	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITINYLSDHS AIKLELRINKLTQSRSTTWKLN NLLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDFAKAVC RGKFIALNAYKRKQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAEKIEIETQ

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17487	47855	A	17593	1359	2520	IQCHPHQATNYFLHRJGKNYFK LHMEPNKSLHSQDNPKQKGTK LEV/CTLPDFKLYYKATVTKTA LYLYQ/NQRCSMEQNRALRN NATYIYNLYLFDKPEKNKQWG KDTLFNKWCWENWLAICRKLK LDPFLTPYTKINSRWIKDLNVRP KTIKLEENLGNTIQDIGMGKD FMSKTPKATATKAKIDKWDLIQ LKSFCTAKETTIRVNRQPTWE KIFGIYSSDKGLISRIYNELQQIY K K K T N N P I K K W K D M N R Y F S K EDIYAAKRHMKKCSSLAIREM QIKTTMRYYLTPLRMAIHKFG NNRQETVREMACLLSGTMDFR HRACFVLSKPDFSTRWPGADA QRPPVLVVVALDSSLFPQASG QRPPSLEDVDGGAGALVAPC
17488	47856	A	17594	1	1227	
17489	47857	A	17595	2	2774	NLCSLIPLREVTIVEKADSSSVL PSPLSISTRNRMTFLFANLKDRD FLVQRISDFLQQTTSKIYSKEF AGSYNSSDDEVYSRPSSLVSSSP QRSTSSDADGERQFNLNGNSVP TATQTLMTMYRRSPPEEFNPKL AKEFLKEQAWKIHFAEYGGGIC MYRTEKTRELVLKGIPESMRGE LWLLLSGAINEKATHPGYYEDL VEKSMGKYNLA TEEIERDLHRS LPEHPAFQNEMGIAALRRVLTA YAFRNPNI
17490	47858	A	17596	1	3472	
17491	47859	A	17597	1	900	
17492	47860	A	17598	1	1290	
17493	47861	A	17599	153	3834	
17494	47862	A	17600	299	1184	
17495	47863	A	17601	1	729	
17496	47864	A	17602	1	2232	
17497	47865	A	17603	36	224	TQWGPSVCWCIPWPSFPDQ*P GF*AVLLPWRCQGFWPLLLAC APAGPATAAEPAVSSPAEP
17498	47866	A	17604	1	624	
17499	47867	A	17605	1	578	RDLDLFSLPQDITLVHYVDGIM LIGSSEQEVASTDLLVRHLHA RGWEINLTQIGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAAFEWGPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSADRDVAVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPFERQLLACYWALVETE

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17500	47868	A	17606	1	282	PIYRVSRRKAANFEWSPEQEKAL QQVQAAVQAAWPLGPYDPAD PMVLEVSADRDADWSCWQA SI/GHKVGHAAQQHSIIKWKWYI RDWARADPEGT
17501	47869	A	17607	1	338	SIYLVTKAA/SSSWGPEQEKA LQEVQAAAVQAAALILEPYDPAGP VVLEVSLADRDADVWSLWQAPI GESQQRPLGFWSKALPSSA/DH KACHAQQHSIIKWKWYIHDRA RAGPEGT
17502	47870	A	17608	1	757	
17503	47871	A	17609	1	1317	
17504	47872	A	17610	2	24	LCQRLLAEPNEKPGSLGNVM AVARIEIGICEYYHEKTTEKALD SHGVLGASTIKGVRSFQRNLEL KLPATERATANAIELLTVLDQA YENFAPQILPSTGSPSTQETAQF KANQNKPLVRGKGPHEAIRYI SAAHREWKPAILTSAIRSCST WLVFTSKNFPKLVTHGSTIAG NGQSSDETQVQGAAWKSDSRG TKRQIPTWILAEGNNAQAQLDI PGPTIPAPNCSLKVPQSWSTTPS MPSSLGKAYWLLACYWALVET E/RLAMGHQVTM/KPELPVMN WVLSDPSSHKVGGAQQHSINK WKWYIRNRRARAGEGTS*LPAP LIG
17505	47873	A	17611	1	1815	
17506	47874	A	17612	875	1916	PGKQGLEWTPRKLLQQTCKRGA GQLEEKLANKRQ*HQH*QKG*P /PQKLNAKDIHNSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTOCKEAKNFDKRLEEL LIQITSLEKNISDLMELKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RGYHN*S /QEIQTITIREYYKHLYANKLENL EEMDKFLDTYTLPRLNQEEVEP INRPTSSEIEAVINSLPNQKSPG QTNSQLTSTRDAEAKFNKIQHP FMLKTLNKLIDIGTYLKITRAI/ S*QTHSQCHTEWAKAGSIPFEN RHKTRMPSLTTPIQYSGNSGQ GNQEFWKLHLVEREW
17507	47875	B	17613	1	1158	

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17508	47876	A	17614	851	1344	HLKPSPSPLYPWKNCLPRNP SLVPRQTGSGVDIWQTAADLQQ RGLLEGKLTNRKE*YQHQQKR CPHQNP1*RSPTSNTKARE/QNW TENEFDELTEVGFRRWITNSSQ LKEHLLTQCKEAKNLEKRL EELLTRITSLLEKNNDPME LKNATAEPHEAYTSINS
17509	47877	B	17615	99	716	
17510	47878	A	17616	1	588	
17511	47879	A	17617	1	1140	
17512	47880	A	17618	1	774	
17513	47881	A	17619	3	527	AENSKKQNAASSPPND/RNSS/EA QNWTENEFDELTEVGFRRWIV TNSSKLKEHVLVTQCKEAKNLD KRLQELLTRITSLLEKNNDLMEL KNTARELREAFSTFCVNCEAVS LITSLREDSHWLEDKSGHRM/R RHQE*KCEYFHPHPGLQFYQL PESDSDHSDPLWPHGGSSFLSSVV
17514	47882	A	17620	1	1383	
17515	47883	A	17621	1	990	
17516	47884	B	17622	337	1515	
17517	47885	A	17623	153	474	QTKSNVNIKKQDVHTKTPSEG HQHQRPKDHNLSLPAREQNWIE NEFDELTEVGFRRWITNSSSEL KEHVLVTQCKEAKNLEKRLQEL LTRITSLLEKNNDLMELKNTA
17518	47886	A	17624	1	771	MPFSDTERVITGPSTKVHSYPG GLQALLQLRLHSLMWRWSAA VAIGVHVRCDLLAVHPVLWAY PQWQEPKMLTLIPGRITATII GLYQHEGIRAYCDSRVYIYKPS SGIESVLTSPQDHNSSPAREQ NWTENEFDELTEVGFKKWWIT NSFELKEHVLVTQWKEAKNLEK RLANLLTRITSLLEKNNDLMELK NTAQELHEAYASINSRINQSEER ISEIEDQLTEIEQVDKIREKRIK/R RNEQSL*EIWDYV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
17519	47887	A	17625	53	814	PGKQGLEWTPRKQLQQTCKRGA GQLEELKANRQK*HQH*QKG*P /PQKLNKADHNSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLQCKEAKNFDKRLEEL LIQITSLKKNISDLMELKNTARE/ LLEAYTSINSQIDQAEEMDR*PD* *RRKERRIK*HNKK**RKEQAAI FAVLQPPVLITRQTGSGVDPQK TPADLQKRCRTVRRKTSQQKA VASTLTKRITITQKLNKADHNSS PTREQNCTENEFDELTEVGFRR WVITNSSELKEHVLQCKEAKN FDKRLEELLIQITSLKKNISDLM ELKNTARERWKHTQVSIKSIK QKWTASQTNKEEKREESNSTIK NDKGDITDPTEIQTITREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEVEPLNRPITSSEIAVI NSLPNQKSPGQTNSQLTSTR
17520	47888	A	17626	1	1566	
17521	47889	B	17627	1	1005	
17522	47890	A	17628	1	2172	
17523	47891	A	17629	1	504	
17524	47892	A	17630	2	1601	
17525	47893	C	17631	132	278	
17526	47894	A	17632	380	828	EVLRVMIELNAVITYPYPKDTGC QPLV*HAAASLNSPEVMGATQ LKPLRPCKKCPKILEGGH*EW MEARHRNLGTLHGLPCSRTHF* TTTAQGEWLCCCHCGEHPQG GRHPCIC*HCYSCHTLAPPVQW TPNVAEPDNKAGAQQYKSPRV
17527	47895	A	17633	1	963	
17528	47896	A	17634	2	368	EFSDPIHHTFDHMRWTKHENE AGWLLSSVDKVMKENDELGD SISQLQKQILSLKSAKIALSESLI SCRERTEIVEK*I*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD
17529	47897	A	17635	1	1881	
17530	47898	A	17636	755	939	ARKNTRIISYSGVCKKNVETWR* MFCTLLGRQQGCATVGKGDRC GPLRYASWRKGDVQLQGD
17531	47899	A	17637	367	423	
17532	47900	A	17638	3	1925	
17533	47901	A	17639	1	1137	

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17534	47902	A	17640	153	474	QTKSNVNIKKQDVHTKTPSEG HQHQRPKIDHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLQTCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17535	47903	A	17641	1	1068	
17536	47904	B	17642	1	717	
17537	47905	A	17643	585	2302	VLQLLRQERLELFVPPGELVVS LASGVKLQTFAGGKAWLLQTH SDLGEQKLTTHIPISLSKVIFWC NWPEAKTAAVDGEQATCEPVL KAMFLADTHLLREFLGHWLDK LRREWQVERAFQATALWLLQPE VVFILEDVDFEGKWTSEAWV DDVEQFRKMFRHPSHVQLKV AGNHDGTFHYETNTYEVEWR NRNPNFSIMGSITPTDYALSKCH LPPEDEVLIYCGVKLPDRIVDS KAGLLKLPVKNVISTQLQFPSI MDQLLYNLFNETSPLVMCLD VMAMSNRGNHHLAATRLRKV LDHNSLPAREQNWTENEFDEL EVVFRRWVITSSSELKEC/DVLT QWKEAKNLEKRLDELLTRITSL QKNINDLIELKNTAQELHEAYT SINSQIDQVEERISEIEDQLNEIK CEDKIREKRMKRNKQTLQETW DYVKRPNPCWIGVPESDGENG TKLENTLQDIIQENFPNLAQA NIQIEIQRTPQYSSRRATPRHI IVRFTKVEMKEKMLRAAGEKE DETNDNEFFLWSQKGKRACTL NDHVEESCPTTKNACLGTPIHC
17538	47906	A	17644	1	282	PIYRVSRKAANFEWSPQEKA QQVQAAVQAAWPLGPYPAD PMVLEVSADRDADWSCWQA SI/GHKVGHAQQHSIIKWKWYI RDWARADPEGT
17539	47907	A	17645	3	903	
17540	47908	A	17646	1	349	
17541	47909	A	17647	1	489	
17542	47910	A	17648	1	352	
17543	47911	A	17649	1	505	KTDGSRWMTVDYHKLNQVAT PVAAPVDPVSLLEQINTSLDT WYAAIDLGNVFFSIPVHKVHQK KFAFSWQQQYTFVTLPQGYIN SPALCRHFVRRHLD/RFSLPQDI TVVHYIDDIMLVG/PLIYRMTR KAAIFEWGPEQKALQQVQAAV QAALPLGPYPADPMRLR

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17544	47912	A	17650	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGEKTDGWSRMTVDYCKL NQVVTPIAAAAPDVVSLLEQIN TSPDITLVHYIDIMLNGSSEQE VTNTLDLLVRHLCATGWEINPT KIQGSSTS VKFLGVQWCGDCR DVPSKVKDKLLHLAPPTTKKEA QHLTGLFGFRKYIPYLVLLC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAAALPLGPYDPAGP MVLEIAVADTEAVWGH/WHSA SFPSPHCPCHMPG*TKWP*WQG WRLCMGSA TWTSTHEG*PGYG HQ*VPNLPAEATNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AEHLLWIWVCLSCMCQFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPSPSS*SSRVDRTPVERPFEIT TTMPTSQESRVQESRGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNSIK L*VKIATWTLWAPPTSKL
17545	47913	B	17651	47	838	
17546	47914	A	17652	1	1566	
17547	47915	A	17653	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGRRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSPHTC SWRRHLLSSCPYT GMSFPIPPSSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHIEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGWSRITVDYRKL NQMVTPIAAAAAPDVV/VVSLLEQ INTSPGTWLCNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTLDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHP KVDSCSTTAPF*DIPEGQQL
17548	47916	B	17654	179	1219	
17549	47917	A	17655	1	2655	

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17550	47918	A	17656	1	942	MVGKAKWKPLELPLRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTGDS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHKPFPAFSW QG/QQYTFVTLPQDYINSLAL*H NLIWRDLDFYLLLDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGTTTSVI AQWAHEQSGPGSRDGGYAWA QQHGLPLTKADLATTAECPVC QQQRPTLSPRYGTIPSLPLTKAL TLQLKKCSSGPMIMEFTGLAM FPILKQLD
17551	47919	A	17657	1	868	
17552	47920	A	17658	83	346	
17553	47921	A	17659	1	643	MVGKAKWKPLELPLRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTGDS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHKPFPAFSW QG/QQYTFVTLPQDYINSLAL*H NLIWRDLDFYLLLDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGT
17554	47922	C	17660	38	202	
17555	47923	A	17661	3	410	LKSRQAPRCEVESVTHEEYVYT RKELFEFSNLYRKKSGEQIREWI LRKTDGSGWRITVDYRKLNQMV TPIAAAVPDVVVSLLLEQINTSP GTWLCHNLWRDLDCFLPQN ITLVHYTDDIMQISGEQEVAN TLDLL
17556	47924	A	17662	2	526	
17557	47925	A	17663	2	431	
17558	47926	B	17664	55	1506	
17559	47927	A	17665	1	753	
17560	47928	A	17666	73	310	QLAEPHWPDP*KAGGFEWGP EQKKALQ*VQAAVQALPLGP YDPADPMVLVVSVADKDAVWI FHLSGSDRWRRITYRCL
17561	47929	A	17667	323	687	KTDGSGWR/TVDYRKLNQVVTPI AAAVPDVVSLLLEHINISPGIWI HQKQFAFS*QQQQT/FTVL/PH GYINSLALCHNLIRRDLDHFSLP QDITLVHYIDIVLTGSSEQEVA GSLESTCRHTKV
17562	47930	A	17668	3	1363	
17563	47931	A	17669	1	1203	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, ~possible nucleotide insertion)
17564	47932	B	17670	130	1374	
17565	47933	A	17671	1	1063	
17566	47934	A	17672	3	239	
17567	47935	A	17673	231	368	NKHQEDSLKPPIPGPSSWTA/P KPTLGQKGTCCTEKKKKKKKK GRI
17568	47936	A	17674	1	1270	
17569	47937	C	17675	100	270	
17570	47938	A	17676	459	1978	
17571	47939	A	17677	35	347	VVRAWYPGWGQGSEKEWQW DQQEALGRVRGSKVTGEWEGR AGPEGTGQNGEGPRGILEVGGT TAPFCLAEGEWGPGGHPHLLF PPSPPRPPPPPTTPEPPS*PPSP PRPPQPPTTPEPPS
17572	47940	A	17678	236	397	NWLQPCG*AHPTGSGFPAPKLC PASPGAFSNEILSEPGPTLAPM PT/GAPCRSHGAGHSGDPGWPS SSPTGEDTNSAGPGAARVQMG CGHCVSLVPR*/CCWTPGGA
17573	47941	A	17679	132	492	TDHRDRKDKHPPALPASAMDK KNA/GQEGRPASRGSSPMATA TTGPQGVMPGYH*CSLRPKGSS VGLW*MLPGLGLTLQDSGLPS GPRQVQNYCPGAKALNQQPQE PA*CKASNQRPSVYLPTRYPS EQHVTEKTNILLRYLHQWTK RTLPRRKTRSKQRKLTGYGYCH YRSTGSNARLPLMFIKTQGFES RLVVDAAWPGTHPSGQWAPF WPKAGPELLSRSQFESGTSRA RLMFYPTMAAPVPK
17574	47942	A	17680	618	755	
17575	47943	A	17681	796	1092	
17576	47944	A	17682	1	391	
17577	47945	A	17683	1	697	
17578	47946	A	17684	1	888	
17579	47947	A	17685	749	1667	
17580	47948	A	17686	1	2088	
17581	47949	A	17687	189	438	
17582	47950	A	17688	387	497	

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17583	47951	A	17689	1	728	MAQEIEGDRLEFRARLTRRVQGGKPGCGPLKAPLGMVPECHSVKPSRDTFDTKSFKALLSFLKIP AIDVHKPIDHPINFTFDPGHRA PARHRHSTAAAVTMSPSGP/PA AAPSPCSPIPRHG*GPLRATSYCPVSWKQKQNSVSNKQTNEQTK TAKAEGARSRGPRNKIPGLPPG PRSGRLRIWLPPPREGSGQFPTAR GHPQPPCSGKGTECQSIQNLA SRISPVGTS CGRTSRQTIRVRK
17584	47952	A	17690	1	819	
17585	47953	A	17691	1	2115	MSGYSYSSVWAEDDIQFDSRFLE LKGDTKIDLKRFSSQGYVEPGK YNLQVQLNKQPLAEEDYIYWY AGEDDVSKSYACLTPELVAQF GLKEDVAKNLQWSDHGKCLKLP GQLEGVEIKADLSQSALVISLPQ AYLEYTWPWDPPSRWDDGIS GIIADYSITAQTRHEENGDDDS NEISGNGTVGVNLGPWRMRAD WQNTYQHTRTQLALGEDYLSN DIFDGLNVYGGVSTDDQMLPP HLRGYAPDISGVAHTTAK
17586	47954	A	17692	1	1080	
17587	47955	A	17693	1	253	
17588	47956	B	17694	1	1069	
17589	47957	A	17695	1	764	
17590	47958	C	17696	136	990	
17591	47959	A	17697	1	1422	
17592	47960	A	17698	547	1017	
17593	47961	A	17699	176	431	
17594	47962	A	17700	1	846	
17595	47963	A	17701	1	1815	
17596	47964	A	17702	1	1578	
17597	47965	A	17703	1	1149	
17598	47966	A	17704	22	441	
17599	47967	A	17705	828	920	
17600	47968	A	17706	1	231	MESKRLDNA/CAGGGD*PQLH QCPR*TAVD*RRNQTAFA*RDA STYRHESGGNASPECHGLYQR QKNADGGGGQRR!
17601	47969	A	17707	1	563	
17602	47970	A	17708	19	372	
17603	47971	A	17709	134	491	
17604	47972	A	17710	1	969	
17605	47973	A	17711	59	839	
17606	47974	A	17712	186	725	
17607	47975	A	17713	1	251	
17608	47976	A	17714	1381	2217	
17609	47977	A	17715	357	804	

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17610	47978	B	17716	1	2361	
17611	47979	A	17717	1	2832	
17612	47980	A	17718	1	3477	
17613	47981	B	17719	143	3122	
17614	47982	A	17720	1	3018	
17615	47983	A	17721	1	4371	
17616	47984	B	17722	1	2010	
17617	47985	A	17723	1	2168	
17618	47986	A	17724	1	2067	MKEIEIQKSLPKINESRSWFFEKI HKIDRLRLARLIKKREKNQIDTI KNDKGDIITANPTAIQTITREYY KHLVANKLENLEEMDKFLDITY TLPRLNQEEAESLNTPTGSDIE AIINSLPTKKSPGPDGLTAEFYQ RYKEELKKEGILLSFFYEASILLI PKPGRDITKKENFRPISLMNID AKILNKILANRIQQHIKKLIHHD QVGFIQMGQGFNICKSINVIQ HINRTKDKNHTIISIDAEKAFDK IQQPFMLKTLNKLIGDGYLKKII RAIYDKPTANIILNGQKLEAPPL KTGTROGCPVSPVFNTVLEVL AREIRQEKIKGILGKEEVKRS LFADDMIVYLENPVSAQNLLK LISNFSKVSGYKINQVKSQAFI YTNNRQTESQIMSELPFTIAPKR IKYLRQLTRDVKDLFKENYKL LLNEIKEDTNKWKNPSCWVGR INIVKMAILPKGIHRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAR IAKSILSRKYKAGGSMLPDFKL CYKATVTKKAWYWYQNRDID QWNRTEPSEIMPHIYNYLIDFKP EKNKQWKGDSLFNKWCWENW LTICRKLKLPFLTPYTEINSRW IKDLNVRPKTIKLEENLGNTIQ DIGMGKDFMSKTPKAMATKAK IDEWDLCLKSFCATKETTVR VNRQPTWETIFAIYSS
17619	47987	A	17725	1	3457	
17620	47988	A	17726	1	3630	
17621	47989	B	17727	1	3384	
17622	47990	B	17728	1	2199	
17623	47991	A	17729	1	3924	
17624	47992	A	17730	1	3345	
17625	47993	A	17731	1	2382	
17626	47994	A	17732	1	3720	
17627	47995	A	17733	1	3894	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
17628	47996	A	17734	1	2427	MGCVRQIPLGTHPVVHQLTSIP QNCQSPQKTRKDREIGQPRGAY GDMRSKCNVMLMMESWNRKR TLEIQTIREYYKHLYTNKLENL EEMDKFLDTYTLPRLNQEEVES LNRPIHSDIVTIINSLPTKKISPG PDRFTAKFYQRYKEELVPFLLK LFQSIK/EGILPNSFYEAIIIPK LGRDITKKENFRPISLMNTDAK ILNKILANRIQQHIKKLIQHDQV GFIPGMQGWFNIRKSNIIQHIN RIKDKNHHIISIDAFAFKDIQQ PFMLKTLNKLGIQDGTYLKIIIRAI YDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEALAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTS NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWNIPCSWIGRINIV KMAILHKALYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLPDFKLHY KATVTKTAWYQYQNRDIDQV NRTEPSEIIPPIYNYLIFDKLDKN KKWGKDCFLFNKWCWQNLAI CRKLKLDPLLPYTKINSRWIK DLNVRPKTIKTLEENLGITQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFVTYSSDKGLISRIY
17629	47997	A	17735	1	3780	
17630	47998	A	17736	1	2808	
17631	47999	A	17737	1	4842	
17632	48000	B	17738	331	3282	
17633	48001	A	17739	1	2880	
17634	48002	A	17740	1	3213	

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17635	48003	A	17741	1	2561	MKAEIKTFFETNKNKDDTYQNL WDTFKA VCRGKFIALNAHRRK QERSKIDTLTSQLEKEQEQT YSKASRRQETIKIRAELEKETQ KTLQKINESRSWFFEKINKIDRP LTRLIKKKREKNQDISIKNDKG DITDPTEIQTITREYYKHLNAN KLENLEEMDKFLDTYTLRLNQ EEVESLNRPTGSEIEAIIINSLPT KKSPGPDGFTAIFYQRYKEELV PFLKLLQFSIEKEGILPNSFYEAS IILITKPRHHTTKNFRPISLMNI GAKILNKILANRIQQHIKKLIHH DQVGFIPMGQGFNIRKSNINVI QHINITNDKNHMIISIDAENAFD KIQQRFMLKTLNKLGDGMYL KIIRAIYDKPTATQNLKKLIGNF SKVSGYKINVQKSQAFLYTNN QTESQIMTELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLSEIK EDTKGKNIPCSWVGRNIMK MDILPKVIYTFNAIPIKLPMTFFT EVEKTTLKFCINQKRIAKSFL SQKNKAGGITPPDFKLYYKATV TKTACYWYQNRDIDQWNRTEP SEIMQHIYNYLIFDKPDKNKQW GKDSLFNKWCWENWLAICRKL KLDSFLTPTKINSRWIKDLNIR PKTIKTLEENLGSIIQDIGMGKD FMSKTPKAMATKAIIDEWDLIK LKSFTAKETTMVRNQPTW EKIFATYSSDIGLSIRYNELKQI
17636	48004	A	17742	1	5042	MTGSNSHITILTLLNGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAIVSDKTDKFT KIKRDKEGHYIMVKGSIQQUEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRJKNLTQS RSTTWKLNLL
17637	48005	A	17743	101	471	MLSRILASRNRMRF AVEVVRA VRE/RVGNDFIHYRLSMLDLVE DGGTFAETVELAQAVEAAGATI INTGIGWHEARIPITATPVPRGA FSWVTRKLLKGHVSLPLVTTNRI NDPQVADDILSSTH
17638	48006	A	17744	161	311	

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17639	48007	A	17745	221	799	
17640	48008	A	17746	20	346	
17641	48009	A	17747	431	1578	
17642	48010	A	17748	1	771	
17643	48011	A	17749	3	863	AVLRREMQRMEGAWLGS DLV DQGERLNRLGFFETVDTDTQ RV/PGSPDQVDVYK/IVSLGGR LFYNDFQADDADLSDYTNKKIE IIDSADYFHIDIMDGHFVPLNT LSPFFVSQVKKLATKPLDCHLM VTRPQDYIAQLARAGADFITLH PETINGQAFRLIDEIRRHDMKV GLILNPETPVEAMKYYIHKADK ITVMTVDPGFAGQPFIP EMLDK LAELKAWREREGLEYEIEVDGS CNQATY EKLMAGADVFI VGT SGLFNHAENIDEAWRVMTAQIL AAKSE
17644	48012	A	17750	2	893	
17645	48013	A	17751	139	2057	
17646	48014	A	17752	2	361	
17647	48015	A	17753	497	897	PRSAFSAWLAFCST/TKDSHPL LAQLLDGVENLDHRQHLLFTA GHGARPLIRAHADVEENDCHPF ILIVHPSIHPIYLSIHPSTIRGERL MTQIPLIKHFLAGVTGLKLTQQ MRFCENVCLPLIATAGNRQTH
17648	48016	A	17754	83	1038	PSRAGHLPPKIKSSMAGTTPCLS IMVRQRK/PLVPAPLYQGM RDG KIVRFEEITRTPLEVQDCLLASA LALGLALMGNAQAVTTIPFWH SMEGELGKEVDSLQRFNAEN PDYKIVPTYKGNYEQNLSAGIA AFRTGNAPTYFAGHIMQACGV ALSATYFIRRKVVSLSDQKLNI AMTFVGSMSGALLVQYVQAD VLRQILPILVICIGLYFLMLPKLG EEDRQRMYGLPFALIAGGCV GFYDGGFFGPAAGSFYALAVTL CGFNLA KATAHAKLLNATSNIG GLLLFILGGKVIWATGFVMLVG QFLGAPHGVPTCV
17649	48017	A	17755	571	1728	
17650	48018	A	17756	332	511	
17651	48019	A	17757	581	637	RALR*SLQDGS AKRGASVS
17652	48020	A	17758	1	1098	
17653	48021	A	17759	1	366	

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17654	48022	A	17760	321	611	GEGENYCDSSVMTWVAI*QN WQCHCCSLRCASLRQG*RQDV TDRGETIKREMARNVV/WRA RVINAGFSRGSLLRGPSIDHRRK RLSASIRQFYPRP
17655	48023	B	17761	95	645	
17656	48024	B	17762	1	3978	
17657	48025	A	17763	1	328	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCCGTVVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSSIS GAMVTAANKVIAVLDSKFNRR RGFNQVLPIEKIDHITDDAVSEV DKLALQKTRDTSLVVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKTV NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIHENLTLAQVKVLKRDKAPA REKALKLLERVGLSAHANKFP AHYSGGQQQRAIARALCMDD IAMLFDEPTSAIDPEMINEVLD VMVELANEGMTMMVVTHEM GFAVKWRIGSTQQGAQLHCNR WLHVRKHLLVAYYNLVGIKPG KESYMRLENEKALDDFCQSLVD YLSAGHFSIYERILHKLEGNGQ LARAANKIWPQLEANTQQIMDY YDSSLETAIDHDNYLEFQQVLS DIGEALEAAFVLEDKLILLVLD AAR*NLLKLKVIIMIDGGFQTGI VVIIHNLISIGFELRPNLRGAREL PVAFQLMKNALINTEMSGRQVI DQALTKIIKGFV
17658	48026	A	17764	216	473	DALRVASGNGCYSALLPLFCRL L*AESA*VPVQRPCGETLMRSS VVCLGGTAPECSSLGCAEKSGR SWPRKV AHTLGSWTVPRES
17659	48027	B	17765	1	1570	
17660	48028	A	17766	1580	1764	PASSLVMR*CLNRIA'SRAHQPA VRAY*SASAPGIA*KENA*G*RL HHR*NPAGKPDPLGL
17661	48029	A	17767	1	1827	
17662	48030	B	17768	1	1281	
17663	48031	B	17769	72	1169	

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17664	48032	A	17770	20	552	SAGDA*DWFWHGGVAGGNG* RSP*A/VTSSALKCIHRAIVRAW LLRMKKV*ATCA*CVTMRLLKC CIK*/CPDNLRLMVQLFFPDPPWH KARHNKRRIQVPPFAELVKSCL QLGGVFHMMATDWEPIAEHML EVMSSIDGYKNLSNDYVPRP ASRPVTKFEQRGHLGHGVWD LMFERVK
17665	48033	A	17771	3287	3568	CAFQRNIWHAKLNASPTPVFVP **LLASLTIPMKPAAMPGGKMD WWRVCRASASRPCQK*SLCQT PASVNTLLTVTAVCCASMASTT TRLWKI
17666	48034	A	17772	1	3126	
17667	48035	A	17773	249	3943	
17668	48036	B	17774	1	2178	
17669	48037	A	17775	263	434	
17670	48038	A	17776	619	1184	MRTSCGSGFIKRRVMRIASGMV AENRAV**PSGICAIMVSTSSMK PMRSISSASSRTRPLSL/AEVQSA TFQVVQQTARSTDNDLRPLTQ GA*LVHVTILAAVQS/PHLRRAC V*RNPSLLQQPVPPVGRGSPAP ESVVLSAQDDQDSATEVKRMLQ FFRSFSGPYPERRGHSADVEYT LPELEMVFRNPDR
17671	48039	A	17777	1	1485	
17672	48040	A	17778	497	1838	
17673	48041	A	17779	534	922	
17674	48042	A	17780	1	458	MQQLEEALKQLAQGSGSSQAL TQVRRWDSACQKLPDANLALI SVAGEYAAELANQALDRNLNV MMFSDNVTLDEIQLKTRARE KGLLVMPGDC/WYVDDCRHTA GFC*RDAGRQYWRHWRFRYR DSGAVFADCAGRGGNYSRDWP WRARPQP
17675	48043	A	17781	2	270	QAGKYYGGAVFAPVFGAIMGG VLRTMNIEPDALTSVDKNEFVI NHGEGTGGRS*FARPSCSVGAR RTFASTARDTRQPCGCGGRSL CS
17676	48044	A	17782	1	1437	
17677	48045	B	17783	63	201	
17678	48046	A	17784	1016	1263	
17679	48047	A	17785	1	933	
17680	48048	B	17786	1	1888	
17681	48049	A	17787	845	2220	
17682	48050	A	17788	110	581	
17683	48051	A	17789	696	989	

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17684	48052	A	17790	199	573	
17685	48053	A	17791	1	3270	
17686	48054	A	17792	1	3018	
17687	48055	B	17793	1	708	
17688	48056	A	17794	264	512	FLAQWLPELPLSRHLRQCTWCR RHRNRW*VRS�HRCWLADCRC PELRIRSHDL*SLAQRLYDRTR TPDRRQLRTVLHWLLC
17689	48057	A	17795	1	2109	
17690	48058	A	17796	1239	1854	YHDDRNPQDAGNPSNADSGPQ I*QATGSPRRLVRRRWKRVNR LLAGKLAIVIDDFGYRPHNENQ VLAMPISAISVAVLPDSPHAREM ATKAHNSGHEVLIHLPMAPLSK Q/TAGEKYATPGDEQRRN*AHY S*WVNNVPYAVGINNHMGSK MTSNLFGMQKVMQALERYNL YFLDSVTIGNTQAMRAAQGTG VKVITRKVFLDGFAG
17691	48059	B	17797	1	2243	
17692	48060	A	17798	74	295	TISVLWMLSLNNTSKKRLA*TG SIGFFGLHSFTPRNGLRGASGTA FFGGVEVSTCGSFSKLLAFTSV MSGGRL
17693	48061	A	17799	1	1872	MLRIHCMQHWYNLSDGAMED ALYEIASMRFLFARLSLDSALPD RTTIMNFRHLEQHQQLARQLFK TINRWLAEGVMMTQGTGLVD ATIEAPSSSTKNKEQQRDPETH QTKKGNQWHFGMKAHIGVDA KSGLTHSLVTTAAEHDLNLQ GNLLHGEEQFVSADAGYQGAP QREELAEDVDWLIAERPQKV RTLKQHPKRNRTGISIAYMTGSI RARVEHPFRIIKRQGFVTARYR GCLNTITNGDVFPLATWFGG
17694	48062	A	17800	1	1269	

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17695	48063	A	17801	1	1988	MNDSEFHRLADQLWLTIERLDDWDGSDIDCEINGGVLTTITFENGSKIINRQEPFLHQVWLATKQGGYHFDLKGDEWICDRSGETFWDLLEQAATQQAGETITGFRVYTLQLNAQLRLGFLRLPYSVNLATEYKSLTHYTKVPEATNPSSVDVKLSANRLKYPMMRKRLMKMWREAKALHSDPVEAWASIIEDADKAKSFKQARGRGGFVRSSWQEVNELIAASNVTIKNYGPDRVAGFSPIPAMSMVSYASGARLXSLIGGTCLSFYDWCYCDLPPASPQTWGEQTDVPESADWYNSYIIAWGSNVPQTRTPDAHFFTEVRYKGTKTVAVTPDYAEIAKLCDLWLAPKQGTDAAMALAMGHVMLREFHLDNPSQYFTDYVRRYTDMPMLVMLEERDGYAAGRMLRAADLVDAALGQENNPWKTVAFNTNGEMVAPNGSIGRWGEKGKWNLESIA/RIENPHFRSVKHNPNVLVRQLPVKNLTLVDGNTCPVVSVDYDLVANYGLDRGLEDENSAKDYAEIKPYTPAWGEQITRVPRQYIETIAREFADTAHKTHGRSMILGAGVNHWHYMDMNYRGMINMLIFCGCVGQSGGGWAHYVVGQEKLRPQTGWLPLAFALDWNRPPRQMNSTSFFYNHSSQWRYEKVSAQELLSPLA
17696	48064	A	17802	3854	5726	
17697	48065	B	17803	1	1869	
17698	48066	A	17804	391	1246	
17699	48067	A	17805	58	1353	
17700	48068	A	17806	872	2123	
17701	48069	A	17807	1	1422	
17702	48070	A	17808	217	509	
17703	48071	A	17809	76	422	
17704	48072	A	17810	2	288	
17705	48073	A	17811	1	1626	
17706	48074	A	17812	779	832	
17707	48075	A	17813	1	1818	
17708	48076	A	17814	1	645	
17709	48077	A	17815	157	293	ALVCSSPWPSEKCKSKPQ*DTISHQLEWQSLKSQETTGAGEDVEK
17710	48078	A	17816	1	1446	
17711	48079	A	17817	1	306	

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17712	48080	A	17818	71	513	TIRSLGLWSQMEMRNLGTGA KKYKLPSSENTINTSTQIN*KI*K KRINSSTHTLSQD*TRKKLNL*I DQ*QELKLWQ*SIAYQPKRVQD QMQDSQ/REFYQRYKEELHINRA KDKNHMHISDAEKAFDKIQQR MLKTLNEVLMGRISK
17713	48081	A	17819	I	828	
17714	48082	B	17820	I	567	
17715	48083	A	17821	I	1224	
17716	48084	A	17822	I	897	
17717	48085	A	17823	207	547	NHFLQGLGPLLQFPTSSSSPSET TSAWTLCPHHYQAFGQSHSTSL *EV/HKLSHIFMSSSEPSKLFQPL PVTQFQSRFHIFRYLFSSIPLYW CQFTVLVHFPAADKDISVTTIP
17718	48086	B	17824	I	1128	
17719	48087	A	17825	I	765	
17720	48088	A	17826	I	952	
17721	48089	A	17827	1570	2176	FLQSTHLTKG*YPESTMNSNKF TRKKQPNQRAKDMKRPFSEKED IDAANKHMKKCSSSLAIREMQI KTTMRYHFTPPVRMAIHKSSGNN RCWRGCGEIGTLHCWWDCKL IQPLWKSMMWFLKDLLEIPEFD PAIPLLGIYPKDYKSCCYKDTCT HMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEEYGAIKR MSSCPL
17722	48090	A	17828	I	531	
17723	48091	A	17829	I	462	
17724	48092	A	17830	876	1111	
17725	48093	A	17831	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPASGTGQARMGQ SHQWAFWLWRKDAHVRKESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17726	48094	A	17832	I	1290	
17727	48095	A	17833	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSAGH AYLLPFGNKNKESGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSEFGLDEKLHHRPGE NEDAPVTHVYAVARLKDGGTQ FEVMTRKQIELVRSLSKADTDI* PWMCPCPMKRKSAT
17728	48096	C	17834	I	786	

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17729	48097	A	17835	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSLEAFDEAPQ DVVNKKVFNILRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHTSGRTSDVKAARELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHRR*RNWPIILFAHQPRK RRY*VVMRQEYYN
17730	48098	A	17836	1	4806	
17731	48099	A	17837	1	466	
17732	48100	B	17838	193	1045	
17733	48101	A	17839	1196	2732	
17734	48102	B	17840	1	732	
17735	48103	A	17841	290	664	
17736	48104	A	17842	302	1716	
17737	48105	A	17843	249	909	
17738	48106	A	17844	36	340	
17739	48107	A	17845	902	1455	RRCVLRP/GLDIMRNLRLNRQQ QRLEQAAAYEMTALRAATIELGP LVRGLPHLRTIHRQLYQDIFDW AGQRRITLNLHGFVPKSTTVVET NGPSDQSIAMRRPQGTISRHHQV QKKLGIELTNCYEHSGLPDIKN VTGILICRQTHARPARLARLIFT ANKTNTINALVDIEVDDFFDTA CQIDCCFETGSHSVLARLGAS AQDLQLDATSASHGSK
17740	48108	A	17846	1	1668	
17741	48109	A	17847	1	1080	
17742	48110	A	17848	1	907	MRAGFTSNVLTFLTCTSHFLNT FRAADVAVQATATSNFRQIQVF EDITQYNGKYILAVEGNPPLGE QGMFCISSGRPFIEKLRKAAAG ASAIHAWGTCASWGCVCQAARP NPTQATPIDKVITDKPIKVPGCP PIPDVMSAIIYMTVFDRLPDVD RMGRPLMFYQRIHDKCYRRA HFDAGEFVQSWDDDAAPKVT ACTKWAAGLPPITVPVHTLE* WVWSRLLAGGNGLDRGRFSGV DSSWISYSSAISVTMAPATTLN QTSKAALAAACIASTLCNGWPA VILAQRHWMKWSGLAS
17743	48111	A	17849	239	899	

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17744	48112	A	17850	155	249	CMRRKLTALTGGEPDR*TAMR* HNKSPALTGS
17745	48113	A	17851	1	1326	
17746	48114	A	17852	1	1394	
17747	48115	A	17853	46	705	
17748	48116	A	17854	2	488	
17749	48117	A	17855	563	687	LLARTSRQ*KTSLNCVNKL*MP SGQWAVLLLPVCRWCWLRT
17750	48118	A	17856	1	1429	
17751	48119	A	17857	1	1037	
17752	48120	A	17858	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPASGSGTQARMGQ SHQWAFI.WRKDAHVRKESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17753	48121	A	17859	1	1290	
17754	48122	A	17860	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFSVAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMDLARRSGQIASLSARV VREGDEFSFEGFLDEKLHPRGE NEDAPVTHYVAVARLKDGGTQ FEVMTKRQIELVRSLSKADTD* PWMCCPMKRKSAT
17755	48123	A	17861	207	210	QLSLLNLPDLSIHRLASSALK RVNDQVGAAPPRHQSPPRNA VSLAPRPVPVEWSCAKLLCLSC RVNCQD*GNKALTSIHFWGE GIVGKMWLFYCTEAHFVRDPS GYSN
17756	48124	A	17862	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSLAFDEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHFKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVTHSGRTSDVKAALVELAK KNGAKIICITISYHSPIAKLADY IICSPAPETPLLGRNASARILQIT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATHR*RNWPILFAHQPRK RRY*VVMPRQEYYN
17757	48125	A	17863	1	4806	
17758	48126	A	17864	1	466	
17759	48127	A	17865	214	907	
17760	48128	A	17866	1288	2757	
17761	48129	A	17867	705	839	AGRSRENNRYRAKQPRCKR*F *CVYRFYPSGRYAEPSSAPNYT

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17762	48130	A	17868	199	1628	
17763	48131	A	17869	746	1013	TRARRRFTALRFSSLVASPPCC NWAAAFSSYYFCQQIVR*PHFDR QEKRSVQNQPDGCGSSASQSVR QRPKSPQQPVQSANPSLLLCR
17764	48132	A	17870	2	331	
17765	48133	A	17871	1	591	
17766	48134	A	17872	1	1197	
17767	48135	A	17873	45	3402	NRFSHISVTSACGWYHIPVEE/Q PEY/PGNLELERRIRSAIRWNAI MTVLRASKKDLELGGHMASFQ SSATIYDVCFNHFFRARNEQDG GDLVYFQGHISPGVYARAFLEG RLTQEQLDNFRQEVHGNGLSS YPHPKLMPEFWQFPTVSMGLG PIGAIVQAKFLKYLEHRGLKDT SKQTVYAFLDGDEMDEPESKG AITIATREKLD/NLVFVINCNLQ RLDSP/RWDELLRKDTSGKLIQL MNETVDGDYQTFK
17768	48136	A	17874	452	1395	LAGATGTAIRLILHAPLLPIKM RLP/TVSEGKPDSPAAEKFAAE NKNTYGALASLELAQQFVDKN ELEKAAAQLQQGLADTSDENL KAVINLRLARVQVQLKQADAA LKTLDTIKGGWAAIADLRGE ALLSKGDKQKGKHQRAENCEIQ GYIDMIKHLVAPLVFTSLILTGC QSPQGKFTPEQVAAMQSYGFT ESAGDWSLGLSDAILFAKNDY KLLPESQQIQTMAAKLASTGL THARMDGHTDNYGEDSYNEGL SLKRANVVADAWAMGGQIPRS NLTTQGLGKKYPIASNKTAQGR AENRRVAVVITTP
17769	48137	B	17875	1	1579	
17770	48138	A	17876	182	2069	

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17771	48139	A	17877	1	2017	MESGVATRPADFDVYIDKLTE FVYKTNLFMKPFSQARKAPKR VVLPEGEARVLHATQELVTLG LAKPILIGRPVNIEMRIQKLGQI KAGVDFEIVNNESDPRFEYWT EYFQIMKRRGVTEQAQRALIS NPTVIGAIMVQRGEADAMICGT VG DYEHFHSVVKNVFGYRDGV HTAGAMNALLPSGNTFIADTY VNDEPDAAELAEITLMAAETVR RFGIEPRVALLSHSNFGSSDCPS SSKMRQALELVRERAPELMIDG EMHGDAALVEAIRNDRMPDSS LKGSANILVMPNMEARISYNL LRVSSSEGVTVGPVLMGVAKP VHVLTPIASVRIVNMVALAVL FVNADETTVVNFHACFACVEV FTVRHTTNRYQHGVVTLRFSG CFFAFHRHINAVFFRNIQAVFV ALRPEVIAIMHKLREQGHRVVV LSNTNRLHTTFWPEEYPEIRDA ADHIYLSQDLGMRKPEARIYQH VLQAEFGSPSDTVFFDDNADNI EGANQLGITSILVKDKTTIPDYF AKDKARHRTPLWA WLKLLW QRIDEDNMTTLAGNLAYVSLLS LVPLVAVVFALFAAFPMFSDVS IQLRHFI FANFLPATGDDVIQRYIE QFVANSNKMTAVGAASLAISS YLLSLIANVLMMS*SVLRMS WNPKWAWSSIWYS
17772	48140	A	17878	31	312	RGTHGICALYRRAAARCAKITL TTFISLFSSYFVIYNILLIYLIFA ASFCLLVV*CHTVFITVCSAGD VSGMSATWCAFVAISVDHFTG FNRF
17773	48141	A	17879	1	1098	
17774	48142	A	17880	1	1015	
17775	48143	B	17881	1	1917	
17776	48144	A	17882	931	1773	
17777	48145	A	17883	785	956	KKWMHSAV*WRKRSIRRVSSL GY**TQAKDRRFALPELRRIVCS TVRRYVRRWRTNRT
17778	48146	A	17884	221	367	
17779	48147	B	17885	1	1318	

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17780	48148	A	17886	1190	1634	APSQTVSLPEVASSMSGVMAG VEAVSSPGPYAVCAGSLLPSGW LCVKTSVMIASAWSPAGAVS IKRSSAVSVRIWALCGA\QPECA VRSLSYPAPFRQVLAPVTHAL* PRRSSGCP*CDYSLQLLLQ*PAH *HLQGLLRKQLSCQR
17781	48149	A	17887	1	2499	
17782	48150	A	17888	454	1698	
17783	48151	A	17889	635	1665	KSIFWRAPADCEP/QVRQSAKV QFGDYQANGMMAVAKKLG APRQLAEQVLTHLDLNGIA EAGPGFINIFLDPAPLAHVQ ALASDRLGVATPEKQTIIVD APNRGFFGGAPLGTTLQDLTR PTKEDGLQAKPISFWASFALQ VNVKILYGVATLSTFVLPQTQ ALSWVVGVSLLAMIGTFGNV CWALAGHLFQRLFRQYGRQLN IVLALLLVYCAAFSGKTS LLFRSQRVKANCITGYTDGQLR IFFRMLNCIFQSFATQNVNVQV LITFNANFWHFYWNFTVFN TQFAYCNHFICITCFNDATPF AFFAVQQPERVHRKTAILL
17784	48152	A	17890	73	212	
17785	48153	A	17891	2049	2445	VFPVFLRIYFVWKKPGMKVTN ARNWQLKPLFTELPIVLPDTQL HYVAVMELYSAPAE*ERIQAFV VWSWNIWLY*A*RLIQ*HIALT PVVTRGKTKLMSAILFNITHR MKAMNLSPPKRLPPRNCCKK
17786	48154	A	17892	1	1476	
17787	48155	A	17893	332	572	RGGA*RQKHRTSALSLSLP* NMATAVHLHRFSTRRAVTS ARKWNTSGAMSGLNRAA\AV LRV*QSPEDGCCARIR
17788	48156	A	17894	80	405	PRNLKSGPPISDAISPTSK*TI TEPISAPSLLATYKAAGCGGIT QCTAINAVHSGMASFNNEVLV FLAIEKARGINSTPTSTNSVMP QIRPTSTIMTSTESQRR
17789	48157	A	17895	1	1392	
17790	48158	A	17896	1	1374	
17791	48159	A	17897	1971	2306	
17792	48160	A	17898	209	449	
17793	48161	A	17899	1	240	
17794	48162	A	17900	1	456	
17795	48163	B	17901	222	3807	
17796	48164	A	17902	3140	3219	
17797	48165	A	17903	240	298	

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17798	48166	A	17904	1902	2047	NQPVYRSNGD/RIWRTGKLFPT TVFRLIRLTSPRAFPPTSYRRCS VAY
17799	48167	B	17905	1	1994	
17800	48168	A	17906	1	2151	
17801	48169	A	17907	3	1127	GTPYASQPVRPVEGSKPLIKQV LDIGAHTDKTIAQKLARVAR MHFARQLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVQR LAHDGHLELVYVPCRSHMDYL LLSYVLHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGGYVNFGEPMMP LMTYLNQHVDPWRESIDPIEAV RPAWLTPVTNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNCYLDLMRNV
17802	48170	A	17908	192	486	PVLVYLWVSFSWLCGRSLVCD AFGCVLCLFCWGCWGWGF SRCLVLRVLDCAVAVWCPL GVGIGLWV/RVLPGLVSAVPC CCDVLARFRVLDLWGW

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17803	48171	A	17909	1	2470	MFQPSDSGKSFIFNMSVGVNLE GIKQPPMQQFIDNMMDASDHP KFAQYRDITLNLKLLQDDAFLAR HGLQEKRESLQALPARIPSTSMV HGVTLSTMHGCPPEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLTGTINNKGA PGDSTSGVLRITYERLLTAWML TCPCADEHQGESVKKLATALT WWLRGSSQNRDEITKDGQFSNH AGGILGGISSGQIIAHMALKPT SSIDVPGRTINRFGEVEEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTDIRPC AQSIGSFNCGIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQLRSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTSQALLRPQAL DLVSRDGGKHVVSTLWKPEIFSL IKLAAQDKDVTIRFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLDPLE PLEIDGTLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRNS PNLQVQMPVPSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFSVSLRRMADE HGTDKTIAQKLARVARMHFA RQLRAAVGPRLPARQDLFNKL
17804	48172	A	17910	1	734	
17805	48173	A	17911	1	962	
17806	48174	A	17912	1630	2633	
17807	48175	A	17913	1360	1600	HSTGRWATTINVPITCGTKARH STSSICKTGMLLWANALKQHC LLSRNLP*KGESINVANSLISYP NLRPQCNQTRTQD
17808	48176	A	17914	1	816	
17809	48177	A	17915	703	1546	
17810	48178	A	17916	209	485	QVIRPTFIPSTSSNGAISLPASTR RDS*MANAS*RCSLA*RATMFP A*SATSIHARPGVEGT*IVRIV VIMLRLLSRRKVRGIRLPAAVLI
17811	48179	A	17917	619	1167	

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17812	48180	A	17918	1	764	DSGQQLDDVQLARYLLSGQNG PKSDRPYRVR*LTGAMLKILIT L/VEIGNVTLGHIRVKIGTGCVIK NSGDWR*LRNQSVYRCGRCES GSGLYHWARLPVCVLVLSCWK VLTSSLVPPD
17813	48181	A	17919	3	1462	
17814	48182	A	17920	122	983	
17815	48183	B	17921	1	1287	
17816	48184	A	17922	289	958	
17817	48185	A	17923	1	5079	
17818	48186	A	17924	1	255	
17819	48187	A	17925	1892	2448	TESRCADGAGSVDVGTPEVPVP RVELVAKWPGSRAGGTGLGCS PWVGAGCVGLGPQARLSGPT ASTEASAKAASTLASLMWLRV RL*GACPFARTGATAPSSSKGP ELGVSGLRKATWMGRGSGCCT RGLGAGEWRAVPESCGLDESS EDSDRDHAVPFSSSSCRSMRL RPRRVARGLCRRRGV
17820	48188	B	17926	52	888	
17821	48189	A	17927	929	1148	TVWNGTCGLPFSSLMKCMVIM IMRAIQKKMMSKPDITITLVGW N*RRASVFGQPRVEKVHSAEE NQVSRSSS
17822	48190	A	17928	125	937	RISMVFPWCFCSCSRSLATTPAP TVRPPSRIAKRRPSSIAIGWIRVT TILMLSPGITITPSGSSMVPVTS VVRK*NCGR*PLKNGV*RPSS LDRMYTSDSNLHGLRPAVSPVT NTPA/SDGYSHDGLAQVDLS ANYHEGQYTSAGLSLQGGATL TTHGGALHRTQNMGGTRLLID ADGVADVPVEGNGAAVYTNM FGKAVVSDVNNYYRNQAYIDL NKLPEAEATQSVVQATLTTEG AIGYRKFAVISGQKAMAVVNF AEGKVS LAVV
17823	48191	A	17929	3992	4213	VPAIQKFPRSWKLGGERPPKA FRLRLSAA*RKSV* AQRSLAD/ SGMPLRLEKCLDTF*QIV*SAF KIQREGS
17824	48192	A	17930	1	1636	
17825	48193	A	17931	1	900	
17826	48194	A	17932	1	939	
17827	48195	A	17933	427	1250	

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17828	48196	A	17934	521	805	LCPSTNTPLSCLCDLVASTEM APMRVFQAPAKVNA**LFA TIEP PYSVNKLKPY**PAWTKSLCL LAPSIWLRPAAKSYFDTPGCSIF GTAA
17829	48197	A	17935	1	2052	
17830	48198	B	17936	1	573	
17831	48199	A	17937	1	1278	
17832	48200	A	17938	161	659	
17833	48201	A	17939	1	588	
17834	48202	A	17940	695	1281	KLKPYSWAFSRQSGRSVILTPPR VTVVVVAGFGPIPVFGTVMVRP GWAAP*FLPVASVYFP*AGLAG FLKKNRGCCANPAPPPIRRPIMY PP/MQRLQEPADW/WACA/WFS GKD*WKKSPNCTRCA
17835	48203	A	17941	261	2045	
17836	48204	A	17942	1	637	
17837	48205	A	17943	31	280	
17838	48206	A	17944	1	582	
17839	48207	A	17945	1	2496	
17840	48208	A	17946	330	507	
17841	48209	A	17947	1087	1875	
17842	48210	A	17948	1	476	
17843	48211	A	17949	1	537	
17844	48212	A	17950	2	492	
17845	48213	A	17951	1	1101	
17846	48214	A	17952	2538	2833	TRRNWRPIQSSEESWRAAGSST PLTTQNRQQTAGIY*RSR*TAA RR*SPALPRRNRLATAG/WQY ATQTRQQRVYPQL*LSAPATRK NRLLANAWLTM
17847	48215	A	17953	125	1831	
17848	48216	A	17954	2	825	
17849	48217	A	17955	1	840	
17850	48218	A	17956	1	1725	
17851	48219	A	17957	463	1824	
17852	48220	A	17958	2	117	
17853	48221	A	17959	1	2640	
17854	48222	B	17960	223	1560	
17855	48223	A	17961	638	746	RIP*MT*WS*KPWHKNYMMHA QASVDNLKWKKGYYQ
17856	48224	A	17962	385	514	
17857	48225	A	17963	17	225	SSPSKFTVAFFASLVMASAVSL ALSRLSLTTLSI/CGLVLQEERT DDALVEQFSPIRRARGHAPQQE ATEM

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17858	48226	A	17964	1	521	LVFLVLFVGFSLCFKSTYTLTY GDSPSLCDGLLII*IIIRIDTNKPA DNSISGIRDVGWVAKSYQVA/V GERLHNRTPGTSHQSDTRFDF* LC*PGSACPVLVSEHERPQANM LVEASGLAA*YQNALSCSFGY GVGLVRRQDFSSLGRFLQSFA SNRY*QVWVFEFQQVS
17859	48227	A	17965	267	554	LRFRTAVRGRIFHRDLVLVLL GCNRYGRRGGDHGLCSVLVPR SLRLGRLPGGDSAAADAQSRH REKCR*DGVLVCDQDNRQTPV WKPHQEDVQV
17860	48228	A	17966	1	915	
17861	48229	A	17967	1226	1399	SDSNISICTCAQH*KHFRII*NCI L*EVEP*RLS*M*LQRKCVQGE SKVHSLWGI
17862	48230	A	17968	828	1070	SFFDYQTSALEHARR*LHCRT* NAGWLPHRTDRSSGYHGRCS AAGRCSSGDHSSYQQNPAAEK LPAGHPQRSQSPERTG
17863	48231	A	17969	45	1198	
17864	48232	A	17970	348	508	RLFRWCPM*S,WASYFPPEQS PDSYWLF*ECNLPTAYNSQNAII RESHAITS
17865	48233	A	17971	251	601	MAKKMSLSIAVFWRRLYAYY PHLR*KS*TNW/QWWSALS*A V*PNRS/IDRSWIIWSVLFGLM V/AT/ALAPAFWLR*KKSFSA WNPTKSPRCLSNARPCCSLSKK ASLPWTIAARSR
17866	48234	A	17972	1	2121	
17867	48235	C	17973	1	1710	
17868	48236	A	17974	1	1335	
17869	48237	A	17975	1	1497	
17870	48238	A	17976	2	824	
17871	48239	A	17977	1	1965	
17872	48240	A	17978	1	3555	
17873	48241	B	17979	197	2021	
17874	48242	A	17980	1	348	
17875	48243	A	17981	1	891	
17876	48244	A	17982	1	679	

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17877	48245	A	17983	3	2502	EAIREVSNPIPQEEIWIWTHREAVP PVQLLTGWCVTAKAPPDISAIS ALTA VKHGNCSSLTPLLNPPTS DVI VCAEMDEQWGYVGA KSR QRWLFYAYDSL RKT VVAHVFG ERTMATLGRMLSLSPFDVVIV MTDGWPLYESRLKGK L HAILV TFEEKFQEEP VKKQIMVSISVS DTGGKKEPKLINLSSKTNGLQ NTTEAQLCETKSD FELSFGFN ISIDTEDMKTGCCFQEQSVRR YFKATSSPRRLIITKLTTTRVDG YVADDP SRRYSGHGDLWPNA GNSCVETT VGSLLCEVQAAPTP HTLEGKHGCRNK EKKRLTHSG ACTYTFSELGLELWAWNCGKT EVNLGAVGKGVGGRGFKKI AKSQFTCSVLYTFTIKQGISLTL WSKVMHILEHLKENSQ L TSIC TRYQRVFGPTWLHETIFCKVAL TATLLAELEKTS LQTFLDKIWI LGAQQHTGSQEPSQALLTCDPA WKKALRKVTKGGAFFGVND LGSSLSPTDLLYEEQRLTSLSG SWFPICVMLVETLRAGSSPGGR LYVEFDQAVTKEP RFLQYKHY WDGAVAGSSILRQDSFVAEAST TITRIESPSVPSRSTFLDDFSITQ QHRRHAGLSVMLS LIISPPVRGL CQERTLRDRFRERL MYLDLEY QSGYCRLRTAGSEM QMPDVL IFAHRSGLAGLFPGLDRRLVNA
17878	48246	A	17984	10	211	GSQSTIFTFAARWNLWANENT DTSISPLGVGEQRHCSSP* RFPD SDRCSPPWSPRSQQGNQSPQTW Q
17879	48247	A	17985	1	1725	
17880	48248	A	17986	1	379	
17881	48249	A	17987	3	273	
17882	48250	A	17988	3	1157	
17883	48251	A	17989	76	378	
17884	48252	A	17990	1527	2005	
17885	48253	A	17991	578	1312	
17886	48254	A	17992	1	1758	
17887	48255	A	17993	1	2433	

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17888	48256	A	17994	1	537	SQEELLQQAALVAQLA/HSEQLE GVQLPEPDEPSARHALPANEPR VLNNGVVSNDPILNNLSWQ HIGYVSSSLHLDYRVSTTVRNV ILSGYFDSIGIYQAVSDRQQLV QQWLDILGIDKRTADAPFHSLS WGQQRLALIVRALVKHPTLLIL DEPLQGLDPLNRQLIRRFVDVLI
17889	48257	A	17995	1	536	
17890	48258	A	17996	1	1319	
17891	48259	C	17997	74	341	
17892	48260	A	17998	3	103	
17893	48261	A	17999	1	745	
17894	48262	A	18000	1	663	
17895	48263	A	18001	2	297	
17896	48264	A	18002	8	340	VPANLSAIALFRRESVTPLAAL AASPVCAGRFLVLLKNHRRDLP* ISVPVNSSNSARSLLVWHSGRQ QIAPDWSSKDDFMRLGKPNRFS VLLLATWIR*STVIRRSPTFS

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17897	48265	A	18003	1	1341	MVHRFGIRVRFVALGFYQDVL PVRAHRHEWHGYVHLCAISQR QIDVSFARDATSHSSCPVTGVR FWGYPFAANKVVIAGFELEGET MTRPGLICAEGGLVMIVSLRS ELYDSYHEFTIRQRTVEIKEAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTRQSRPLQRHS HADVQTATLLNTVNLEQKQA NAILSGLSDMIPISSPESAPEIQL LQSRMILGKTI AELNLRDIVEQK YFPVIVGRGWRLTKEKPGELAI SWMHIPQLNGQDQQLTLTVGE NGHYTLEGEFTVNGMVGQRL EKDGVALTADIKAKPGTQFVL SQRTLEAINALQETFTVSERSK ESGMLELTMTGDDPQLITRILN SIANNYLQQNIARQAAQDSQSL EFLQRQLP*TLKSNRPTPFSAA*/ DDMIPISSPESAPEIQLLQSRMI LGKTI AELNLRDIVEQKYFPI/D GSRLGEINQRKTR*AGDQLDAY STTEWSGSATDTQVGENGHYT LEGEFTVNG/NGRPASGKRWR CADYRGH*GQDQQLTLTVGEN GHYTLLEGEFTVNGMVGQRL KDGVALTIADIKAKPGTQFVLS QRTELEAINALQETFTVSERSKE SGMLELTMTGDDPQLITRILNSI ANNYLQQNIARQAAQDSQSL FLQRQLPEVRSELDQRKKNSTFI
17898	48266	A	18004	414	893	VFAQHGLTVAAIAAHARDRWF VGRTAHANPPVRCSTDGSGRVP VTRYSGFVAAA VILLTASPRGG ECSREAPLCSVSEYLLQSAGE YAPAPRCVLRVSPVSEDFVPV VPD*APPVEVALFLRLTPVAR PADGGWLLAAIRPDALTSIAIV VLAAAR
17899	48267	A	18005	432	1108	
17900	48268	B	18006	1	753	
17901	48269	A	18007	46	282	
17902	48270	A	18008	1	1201	
17903	48271	A	18009	1	618	

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17904	48272	A	18010	1	1045	MLCTKWDLKLEKNAGKNKN AYKWWGPANAPDEPHIEQLV GECRVMRQLKRLISRIAPSSSV MVVGESGTAIPVVSHEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFDDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGQF*PAGGW/WGSPFFAK/ RYTRSKPYITGDNGYVAGWV AGYNFM LGSEKFTLTNWN EYE FDRDATYAADFLPLYDVDCQD NGNLEYDTSYQPEWKHNLFDH YLA VLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFS PRLKKLA
17905	48273	A	18011	228	430	YPRQHRQRADGSDRHR**/CWS A*IWANPTSNLPPCRFALTKRK RPILCAPPSRQSYAAWCRWEIRI A
17906	48274	A	18012	296	1178	
17907	48275	A	18013	1	1395	MPSDISLASCLRLATSRFLTDRH RQSDCMATNRIPIVDDDEDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPMDGIKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRRAKGAFIKVNC AALRESLLESELFGEKGLFER ANEGTLLLD EIGRM/PLVLQAIL RIHQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLDRREDISLLA NHFLQKFSSNQDII DIDPMA MSLLTAWSPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIMEVLEQQEGNRTAL MLGISRRALMYKLQFYGIDPAD
17908	48276	A	18014	1	771	
17909	48277	A	18015	1	2154	
17910	48278	A	18016	859	1014	IKTGETHPGIGPSVM*RHSKAD LTHRHCGGIPQSVSFGSQH GGGQFPPL

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17911	48279	A	18017	1224	1520	SPLVNQ*GA*KFFSRGNLFPOG ETH*KTKGVPCWTRYPLDKRS DSAEIFKTPANASGRTSGSLGC AAQLEKVADGRDLDEKLAEG IGGSNKTSVWQG
17912	48280	B	18018	182	2392	
17913	48281	A	18019	72	266	
17914	48282	A	18020	600	914	PYRGSPRNHGQLCDHCSHRI.SE DPFVRYSNHCQSISNYRCDKPP VRPLSPLHQKTDKHHQRDPDRP FQWSAAPAHGRWRSGDS*ETP LHYAQPAGKLRWLWVNY
17915	48283	A	18021	1102	1171	LLGYGQQPPASNLLSEG*RSVV L*ISALRM*ALPPQKSSDAPNG WLPNRWPISSTHMIR
17916	48284	A	18022	1	1279	
17917	48285	A	18023	1329	1403	
17918	48286	A	18024	442	918	
17919	48287	A	18025	3	1345	
17920	48288	B	18026	436	988	
17921	48289	A	18027	637	1086	
17922	48290	A	18028	1	321	
17923	48291	A	18029	1	845	
17924	48292	A	18030	298	581	GARAEARAGSGQGAGLVSSP VRWRGWSDKGAERPGGPLSPL REVSRAGPSG/HAARGQQPGRP RFPPPGPRPRRRCPCTRARPGG AAGGGPCL
17925	48293	C	18031	450	604	
17926	48294	A	18032	1279	2253	

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17927	48295	A	18033	1	1957	MAQFHVSHPPAEWPRHVLMLM ADSKNELQNMNTGQTCGRQT LKSKLQGWKNPGIQSDPGSQG HPRCLKTFPLVAQSQSTQERNHV MEKAVLKSQNWALIEEFITKIG WFPDYSKGKVKYLSPPKSSCTTV LQVTHFSLFFHPNPDELVSQIKV WSKHRLYQNNSEAFLEVOIPEP KCEVYSMRMTGRRQPGTAMD LNAGGSICNVPTLLHLTGESTF RDRQRVGAYLDIRGWYILVLV VDKEKLGIPGQKQNSKLLFGSE KLKQWVYVKNHAKESITQEAM GIWVGQQRKRQPLGYEERKLT NRKDIHIKNPSVCHHQRPKVD KTTKMGGKQSRKTGNSKNQST SPTLKESSSSPATEQSWTENDFD ELREEGFRSDYSELQEEVQNN GKEVKNFGKKLDEWITRITNAK KSLKDLMLKTKARELCDETS LSSQCNQLEERVSVMEDEMNIE KQEEKFREKIRKNEQSLQEIW DYMKRPNRLRIGVPESDGENGT KLENTLQDIIQENFPNLRQANI QIQEIQRTPQRYSLRRATPRHIIV RFTKVEMKEKMLRVAREKGRV THKGKPVRLTADLLAETLQAR RQDTHRLKIKDGGRTFKQMEN RKRQGLQS*SQIKQNLNQQRSK ETKAIT*W*RDQFNKKS
17928	48296	A	18034	1	2838	
17929	48297	A	18035	1	897	
17930	48298	A	18036	26	308	
17931	48299	A	18037	749	1020	
17932	48300	A	18038	1	1773	
17933	48301	A	18039	1	1890	
17934	48302	A	18040	1	756	
17935	48303	A	18041	399	660	CPPEAVMPRRHEPVWEMTGFF LPDVLSDSSDTSEGRFLHLET WAPFLCRCLSLRLIS*HHHQT GNSSPPVSASQHQSVDRDSL
17936	48304	A	18042	909	2005	
17937	48305	A	18043	1	490	
17938	48306	A	18044	104	775	
17939	48307	A	18045	170	451	
17940	48308	A	18046	1	207	

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17941	48309	A	18047	146	678	LGFLRLSEMPRKQGDYRTRIWK KFEDGLSNVLVIQLNKLIIICVM CLVRDCDVLKTYFHR*SGLLPI KDTSPFPTRVTQWGWKNDQ TFQGLLDTGSELTLPEDPKRHC GPPVKVGAYGGQVLHSHKWAPI YHFLSSHNCNGFCYISIANLPKK FGQNIKECLTNNRIVPFNCVQD
17942	48310	A	18048	270	1444	
17943	48311	A	18049	700	1062	
17944	48312	A	18050	3	1096	
17945	48313	A	18051	1	1500	
17946	48314	A	18052	1	6215	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGDGSFN FEGVKAEFPGTQTQEYIKGME DSSSEVTVNREVTDDNPYTISVT NKTLSAIRIKMFMPRGVRIESN GDKNGVRVEYEVQAVDGGSF ETVLTDVIEGKTMSSGYDRSRV NLPFNFNQVIFRVVRKTPDSND SNVVDIAQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFNPQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKA
17947	48315	A	18053	1325	1417	
17948	48316	A	18054	1	4971	
17949	48317	A	18055	251	1091	
17950	48318	A	18056	1	2277	
17951	48319	A	18057	2	448	KNDKGDIIVTTKSGGRGTSTVS FKLLKPEKI/GSKFSQKDEMLF HGMRA DFTSENFSAAWYLIEN HSNTSFEQLKMAVTNLKRQAN KKSEGLAYVKGGLSTFFEAQD ALSAIHQKLEADGTEKVEGSM TKLENVLNRSNTADTVYE
17952	48320	A	18058	124	984	

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17953	48321	A	18059	142	1393	DKKPGMVPPPPGEESSQTIVLPP GWQSYLSPQGRYYVNTTTNE TTWERPSSSPGIPASPGSHRSSLP PTVNGYHASGTPAHPPEAHM SGRKSTGDSQNLGSSSPSKKQS KENTITINCVTFFHPDTMPEQQL LKPTWESYCDYFWADKKDPQG NGTVAGFELLLOKQLKGKQMQ KEMSEFIRERIKIEEDYAKNLAK LSQNSLASQEEGSLGEAWAQV KKSLADEAEVHLKFSAKLHSEV EKPLMNFRENFKDKMKCDHH IADLRKQLASRYASVEKARKAL TERQRDLEMKTQQLEIKLSNKT EEDIKKARRKSTQAGDDLRC VDLYNQAQSKWFEEMVTTTLE LERLEVERVEMIRQHLQCYTQL RHETDMFNQSTVEPVDQLLRK VDPKADRELWVREHKTGNIRP VDMEI
17954	48322	A	18060	1	435	
17955	48323	A	18061	3	926	
17956	48324	A	18062	3	693	RPFLAYLRDGDARAGLNLQL AVLAMLSSRKMFCKKSGQSYS PSRVLITENDVKEGLQRSIILYD RAGEEHYNCSALHKS MRGSD QNASLYWLARMLEGGEDPLYV ARRLVRFA/SEDIGLADPSALTQ AVAAAYQGCHFCMPECEELLA QC VVYFARAPK SIEVYSAYNN VKACLRNHQGPLPPVPLHLRN APTRLMKDLGYGKGKYNPM YSEPDQEYLPPEELRGVD
17957	48325	B	18063	1	2020	
17958	48326	A	18064	19	404	
17959	48327	A	18065	1	407	FRATITSAKMGA YKYIQELWR KKQADV MRLLRVRCWQYRQ LYALHRA PRPTRADKARRLGY NDKQGYVIYJRVRGRGRKRPD PKGATY GKPVHHGDNQLKIAR SLQSDAE EEPAGRHCGALREQSS Y*VGEHST
17960	48328	A	18066	53	431	AKKGAYNYIQELWRKKRADV MRFLLRVRCWQYRQLSALHRA PRPTRDPKARRLGYKAKQGYVI YKIRVRRGRGRKRPV PKGATYG KPVHGGANQLKSAQSLQTGVQ ERP GHP*YAMRV LKAYRARP
17961	48329	A	18067	5	328	

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17962	48330	A	18068	93	836	AKMGAYKYIHLEWRKKQSDV MRLLRARCWQYPALHRRAGTE WQLSALHRAPRPTRPKARRL GYKQAKQGYVIYRIRVRRYI*D SCSPWWLKTAAQFPKGCNFTGK PVHSWVFNQLKSFASKAFQFR WQEGGEAWDGTGGLLEEFNLN FFNWVWV/GKIST*QNFFEGLIL I/VIPFHS*SEENPDTQWDQPN QSHKHRIEMRGLTARPEKSRG L/GKKGHKFFHTIGG/SLRRAT WRRRNTLQAPPLPLI
17963	48331	A	18069	1495	2055	
17964	48332	B	18070	125	2530	
17965	48333	A	18071	345	800	RWRLQNLSCSSCSGSGSEGAT CFARGR*RPPGNSLNVSRMCTR SSYSCRRHSPAFLSWGKGRCHL CNKAHLLAGA*HYSFLSGSAPY *N*VNGQI**R*TAHRSTPDAPT GH*NCCS*L*CHSY*QRA*PGY RHD*CRMCC*CADCSHAC
17966	48334	A	18072	181	1687	
17967	48335	A	18074	205	1734	
17968	48336	A	18075	1	705	
17969	48337	A	18076	590	685	
17970	48338	B	18077	1	881	
17971	48339	A	18078	1043	1248	ITLGIMAIFTVLPIPIHEHGMVFH LFVSSFISLSSGL*FSLKRSFTSL VSWIPKYFILFEAVVNGSSL
17972	48340	B	18079	1	1977	
17973	48341	A	18080	805	1153	AWKVLPPFVSFCFLSSGL*FSL KRSFTSLVSWIPRYFILFEAIVN GSSLMIWLSVCLLLVYKNACDF CTLILYPETLLKLLISLRRFELLF LSMFSASFRSSCKAGLVVAESL
17974	48342	A	18081	471	1442	IWSFHIVPYFLEALFV*GVRKGS SFSFLHMAQFSQHLLSRESF PHCLFFSGLSKTR
17975	48343	A	18082	188	355	
17976	48344	B	18083	1	1677	
17977	48345	C	18084	35	1816	
17978	48346	A	18085	557	724	
17979	48347	A	18086	179	346	

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17980	48348	A	18087	135	1461	INRIYILLSTTSHLFQN*PHSWK*STPQQM*KNRNRYNKLRLRPQC NQTRTQDEETHSKSLNYMETE QPAPE*LLGT*QNEGRNKDVL* NQREQRHNIPESLGH1*SNC*QD **RRKERIK*MQ*KC*RCNKN AKGVITTDPTIEQTTIREYHKHL YANKLENLEDTKFLDTYTLPR LNQEEVESLNRPTGSEIEAINS LPTKKRPGPDGFTAIFYQRYKE EQRIKYLGIQLTRDVKDLFKEN YKPLLNEIKEDTNKWNIPCSW IGRINIMKMAILPKVIYGFNAIPI KLPRTFFTELEKILKFIKNQKR ARIAKTILSKKNAGGIMLPDFK LYYKATVTKTAWYWFQNRDID QWNRTASEITPHIYNHLIFDKP EKNKKWGDLSFNKWCWENW LAICRKLKLDPLIPYTKINSRW IKDLNVRPKTIKSLLENLGPFR
17981	48349	B	18088	1	2016	
17982	48350	A	18089	659	826	
17983	48351	A	18090	3531	3878	
17984	48352	C	18091	1	2793	
17985	48353	A	18092	1607	1774	
17986	48354	B	18093	1	1666	
17987	48355	A	18094	1	1068	
17988	48356	B	18095	1	1549	
17989	48357	A	18096	557	623	KKWINYWTHTPSQD*TRKKNLP
17990	48358	B	18097	1	1231	
17991	48359	A	18098	263	1461	GGSSCYPSEWATIRTAKMVTLR KRTLKVLTLFVLFIPLTSFFLNY SHTM/VATTWFPKQMVLESEN LKRLIKHRPCTCTHCIGQRKLS AWFDERFNQTMQPLLTANAL LEDDTYRWWSLESVMFSVTM GFCLQRPFGDKQGTTPQVYINQ TGRDLTQQQLRQREKPKNNLN DTIKELFRVVPGNVDPMLEKRS VGCRRCAVVGNSGNLRESFYG PEIDSHDFVLRMNKAPTAGEA DVGTKTTHHLVYPSFRELGDN VSMILVPFKTIDLEWVSAITTG TISHTYIPVPAKIRVKQDKILYH PAFIKYVFDNWLQGHGRYPST GILSVIFSMHVCDEVLDYGFGA DSKGNWHHYWENNPSAGAFR KTGVDHADFESNVTATLASINK IRIFKGR
17992	48360	B	18099	1	4855	

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17993	48361	A	18100	571	4189	FSLKRSSTSLVSWIPRYFILFEAI VNGSSLMIVLSV*AKILVQRA* VLAFFHP*LRFKDQVVVDMW HYF
17994	48362	A	18101	7449	7626	SFRSRLFSFHVVELF*VSFLILSS SLIALWSEKQSVIISVLLYFLRS AFLPTMWSILE
17995	48363	A	18102	63	329	SGQRRKEVPSPTLPAPPFILKKK EWPDPPRSFFSGGHWAKSSCPS DCSSQLMAC*/CKNAKHQKDN SCL/STHMKGNSEK*NSGYQ GLG
17996	48364	A	18103	2	618	GAFLLLEVATAAGLSAGLTRLGS QVGGAMRRSKADVERIASVQ GSTPTLQKSMKGFYFAKLYYE AKEYDLAKKYICTYINVQERDP KAHRFLGLLYELEENTEKAVEC YRRSVELNPTQKDLVLKIAKLL CKNDVTDGRAKYWVERAAKL FPGSPAIFYKLKN/DGWVRGQM VPKPDDEGVQVRGRSGRPDAG WRLNRRSSVGGSAW
17997	48365	A	18104	1	995	
17998	48366	A	18105	1	513	
17999	48367	A	18106	62	521	
18000	48368	A	18107	1	375	
18001	48369	A	18108	76	480	LVKVCCHCTYHHFLTGVVSLPR DGGKGAPCWGRARSPKSALLP YLAPGRG*VGTVEVQN/PNGTS PVQSPATDVGRSPALGNQEP/G T*SPGPQIGRGVITGTARPHGT SRDSWRRPPSFILNAVANIPKGN APIPKE
18002	48370	A	18109	445	1128	
18003	48371	A	18110	784	1189	IPLGKLLLPKVPAGQIERFPFQIP VPLCSLSFPSPSSSSARS*VRQ ES*LGTGPGAPTGP/TSHHPSAS SPPHPSAKAAFLSFVCLCS*PPP SSCHPCGLGPGDPSPQKMMICT VAHLNQLSLIFTVVKVHLL
18004	48372	A	18111	1	2088	
18005	48373	C	18112	169	213	
18006	48374	A	18113	1145	1229	
18007	48375	A	18114	1	975	
18008	48376	A	18115	1	750	
18009	48377	A	18116	288	368	
18010	48378	A	18117	34	168	
18011	48379	A	18118	479	1579	
18012	48380	A	18119	2279	2398	SDCSCPL*GPPGRWHKRRKSG SPHLSTPEGTALTSQA
18013	48381	A	18120	21	190	

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18014	48382	A	18121	1	1773	
18015	48383	A	18122	18	290	VAGTWPNFLKKVGVGVKYGTR YGASLRKMKVKKIEISQHAKYTC SFCGITKMKRRAVGIWHCGSC MKTAVAGGAWTYK*V*FLVVF SVWTT
18016	48384	C	18123	325	486	
18017	48385	A	18124	1	498	
18018	48386	A	18125	3	306	RQEIDSIHQGVGYCLALVPANT LPKTPLGHHISQTKQLFLEGS HPCNLMCPHTCVTNLKPQRQK QP/WCRPCFRDGEWESGCWKTY STSCWKGSGTNRRE
18019	48387	A	18126	1	1197	
18020	48388	A	18127	1	390	NSRVDDFVAPGLSEAGKLLGLE FPERQLAAAVG/CSPMSGVIS MSAPFPLGKIIDAIYTNPTVDYS DNLTRLCLGLSGVFLCGAAAN AIRVYLMQTSRQRVVKRLRTSL FSSILGQEVAFSDKAGTGELI
18021	48389	A	18128	1	695	SGFMDHLEEKADLSELVEKEEL GFFQYRYRERCHQKVYHPITKPG GSAKDAAPGGGHHQAGPGQG GDEGIRMMFCVSPNRAFTVVS VVPVLSIIDVIYGRYLRLTKVT QDSLAQATQLAEERIGNVK/TV RAFGKEMTEIEKYPSKVDHVM QKARKEAFARAEGVILNEKSFQ GALEFKNVHFAYPARPEVPIFQ DFLSLIPSGSVTALVGPSSGSKS TVLSLLRLLYDPAS
18022	48390	A	18129	1	2136	
18023	48391	A	18130	1	822	
18024	48392	A	18131	257	388	
18025	48393	A	18132	1	765	MVNALSLAARIHAEPVPADESPE MTEGYEGFYHLASMKGTVERA DMHYIIRDFDRKQFEARKRKM MEIAKKVGKGLHPDCYIELVIE DSYYNMREKVVEHPHILDIAQQ AMRDCDIEPELKPIRGGTDGAQ LSFMGLPCPNLFTGGYNYHA/P SPKFSAVSAMLLASASSAGRCG ESIFSPLAYTSSPIESDSCGPAL* RFLRH*/P/EIFLTQPVF/SENEAID IWN/SPTASVSPLMPSRQNAVRE LFLLTVRPRPTGTD

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18026	48394	A	18133	1	1166	LTHWVYHLYGIQRILIHIPSTSQ PNRVRGDIPPLQRIVVPTVIVQ PRLIMLLPWQTVRLVQVMRV LLIKLVAPFIILPAPRRJAVFADE RQRQAPVVAVVKMNFSSRCVF RLHLSGQLLHRQPALRKPRPAF TAHAVCPDFFLQPVPQQPHQFSR EHHAVAVLTPFLLERLCQAAPL RFFPLAVLCCLDPDERREASRLV YRLDTGCVSLHRRQPVSVPAIS LALPMLAILVVQTFMALYAI VTWRMMGKNYDAVLAAGH CGFGLGATPTAIANMQAITERF GPSHMAFLVVPVMVGAFFIDIVN ALVIKLYLMLPIFAG*PMKRR* K/SPPQQRQMPDTRLSSVPSA SSVLGGLPVVGNVREYGVPGA ELPGSSPDRAVNPPL
18027	48395	A	18134	48	314	LVPMTWVIEASYSIMRKKVGE HPHFLDIAHQAMRDCDIEPELN PIRGGTGDAQLSFMGLPCPNLF TGGYNMVMMSL*LWKVWKK RCR
18028	48396	B	18135	83	3044	
18029	48397	A	18136	1	1080	
18030	48398	A	18137	3	979	DAWADAWSKKADVKEVNP/D TKEKKPEAKKVDAGGKVKKG NLKA/KKPKKGK/HC/SRNP CKKEIGRNSRSGMYSRK/AM YK RKVYSAAKSK/VEKK/K KEVLA TVTKPGV/GDKNRR* PGVVKL PQKCPRYYP/SL EDVPRKACLSHGKKTP LVQHVEKNCEASIPRG PF*FILTGRHRGK/RVGF PESSL AKLAYLLC*L GPLVLKSEVPL/R RTHQKFCHLPLSTKINDIS N/VKI PKHLTGCLSR RKKLRK/PRHQ EGEIFDTEKEYE/TEQR KIDQ KAVDSQILPKIAIP QLQGYLRS VFAL TNGIYPHKLVLVNL CKNP
18031	48399	A	18138	858	1418	
18032	48400	A	18139	97	516	
18033	48401	A	18140	1	219	

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18034	48402	A	18141	110	768	NLFSGCVESTFRKQPAHQRRSR ARAETMQRRLLVQQWSVAVFL SYAVPSCGRSV EGLSRRL/LKLP MRPKNVHVPTKVTTYKRAVSE HQLLDHDKGKSIQDLRRRFFLHH LIAEIHTAEIRATSEVSPNSKPS NTKNHPVRFSGDDEGRYLTQE TNKVETIKEQPLKTPGKKKKG KPKGRKEQEKRRRTRSAWLD SGVTGSGLEGDHLDSTTSLE
18035	48403	A	18142	338	661	
18036	48404	A	18143	443	661	
18037	48405	A	18144	474	531	
18038	48406	A	18145	208	317	
18039	48407	A	18146	1	807	
18040	48408	A	18147	1	1122	
18041	48409	A	18148	283	2204	ASPMAPTSLCVP TLLPSLNQTSS SSTAPTGKASGWGPMRLRPGL TTPWLSLTLW*SRPTFTSSPC SFVVLASPTSLKCWPLSEGA
18042	48410	A	18149	208	1212	
18043	48411	A	18150	202	1677	
18044	48412	A	18151	1	3285	
18045	48413	A	18152	3	2206	
18046	48414	A	18153	1	1041	
18047	48415	A	18154	2	1460	
18048	48416	A	18155	1	792	
18049	48417	A	18156	51	362	AHGAAWPSHRKDRESADLGSD GQNGQDLDWGGGCRCC*RC DVLWCWGA PHTFRHSYAMHML YAGIPLKVLQSLLLGQAPCRCG LGQNVGTALPLVSGGPMLFP
18050	48418	A	18157	609	690	
18051	48419	A	18158	1	2055	
18052	48420	A	18159	3	2236	
18053	48421	B	18160	406	454	
18054	48422	A	18161	1	2151	
18055	48423	B	18162	1	1215	
18056	48424	A	18163	1	594	
18057	48425	B	18164	1	1380	
18058	48426	A	18165	441	692	

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18059	48427	A	18166	2	1311	QHVRSTVTLELWTFGNFVNSIQTA FAAGIGWLITFCCKGGDCILTSQ TRLRLSGMLFLNSLDAKEIYLE VIHNLDPDFELLSANTLEDRLAH HRWLLFFHFGKNENSNDPELK KLKTLKNDHIQVDRFGCSSAP DICSNLYVFQPSLAVFKGGQGTK EYEIHHGKKILYDILAFKESVN SHVITLGPQNFANDKEPWL DFFAPWCPPCRALPELRRASN LLYGQLKFGTLDCTVHEGLCN MYNIQAYPTTVFVFNQSNIEYE GHHSAEQILEFIKDLMNPSGGS LTPTTFIELVTQRKHTEVRI/V*F HCPGWPPWRLWPMACKPRNL LP*SSRPLNT*SSLFCSSNQPDLR GPLLHRPLSLPRRYRGAQVPNP DFGHYSVSPSLHGLHQCShLFS HSPPPRVLRPPRILTTSTGLPPSP RRSATDVHTAYPPTAD
18060	48428	A	18167	1	924	
18061	48429	A	18168	10	1254	
18062	48430	A	18169	1	618	
18063	48431	A	18170	1	460	MAAPMTPAARPEDYEALNAA LADVPELARLLEIDPYLKPYAV DFQRRMFWMFLPFFTLAFSPSV LVRFHADKDIPETGQFTKGRG LLDLQFQVAEDASQSWQKLYL LPNCSGQPHQKLVPTAQKFYIT VEWGTFFSVPGQVVGSEGSQM SVTVEGSESEDDKMYMTCCS ALLDSFALC**RHT*DWAYKR KRFIGLTVPMWLMRPNHGRS CISCLIALANHTKNWFPQRRSFI SQWNGVLFSQCLAKLWALKEV RCQ
18064	48432	A	18171	1	582	
18065	48433	A	18172	1	1578	
18066	48434	A	18173	1	1293	

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18067	48435	A	18174	344	1358	EAQSVTNHKNRSDCTFKEDNSL PVRKPSFLITNPGSNQGPFRFAGS PLGHEFTSLVALLWTGHIHPSK EAQSLLEQIRHIDGDFEFETYYS LSCHNCPDVVQALNLMSSVLNP RIKHTAIDGGTFQNEITDRNVM GVPAVFVNGKEFGQGRMTLTEI VAKIDTGAEKRAAEESARKGIR TGLMGERFGGQILDVTDIENYIS VPKTEGQKLAGALKVHVDEYD VDVIDSTGRSS/AISGFHFTYDS NSPTARCAPT*QNCAPSPSEY APGEKAMRRRTILVWRHCDY/PL CNAGNFVSMISRATSNITATMII *GVCTDNTRLCLYALNCSGDIL SRTSCD
18068	48436	A	18175	I	1561	
18069	48437	A	18176	884	1171	PRRLNNEHKLRLMSWLHCLVP HHAKWLQRWQWSAKVV*FA *IRAVNFVTAIRAIHQQSRKQ HRYLRSACHGRSIIITVITQSPTK SSATKMPEN
18070	48438	A	18177	274	416	QADDDADNQSQDGTDAAFGLI Y/CESDDLC*LPLPALCPLCVM WYQTM
18071	48439	C	18178	24	509	
18072	48440	A	18179	1	1932	
18073	48441	A	18180	1	2583	
18074	48442	A	18181	1	495	
18075	48443	A	18182	36	798	KQRHSCFWSCWFSRAG*LDEL V*NPEIA*RP RPQQQT VSGNG AWSGKAPRRRHSWHY/YTISFQ KLPLVECTNAGPIF*VAKAGRK CSIKPPLTSRSYITD*PVLSRSQ LTGR/AGNFVTGW/QQLDEEIR YTMRTTVNAQTRDRKGVQPP TTWIFNDTKDQLERRIARLETG MAWAEPPSRTRHLISNCQISET DIPNVFAVRVNYLLYRAQKER DETFYVGTFRFDKVRRLDDTG ASWNGNRTGSAGIISIT
18076	48444	A	18183	114	724	ARTRVPHFPFHETAGGAAAH HLSLLGQDPGNQTLPGGRGGI PGGRGGGGGGGGGGDGRRR ALRRQQVPVLCVQRAGPAMDA AAPRHSSPDRERPKDQEVHLRL PGHASHSPHLGRHAGQPAGPA GLWQAPGLRHHLHAGIQPPE/V TNTTLTALT*TRRCPAFSSGTVK PLFIWNLAAGPPLLRKGAAASIV ICSCSIFQR

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18077	48445	A	18184	1	2130	
18078	48446	A	18185	2	433	EMTLDSRVAAAGDLFVAVVGH QADGRRYIPQAIAGQVAAIIAE AKDEATDGEIREMHGVPVYVLS QLNERLSALAGRIFYHEPSDNLR LVGVGTGTNGKTTTQLLAQWS QLL/GRNQRGNGHRW*RPAGES DPDRKYNRFGSRCSA
18079	48447	A	18186	114	586	SYITALGQFSRSGIQLDLRLGNF GTGWPNFDRKRFGSTMRRTVN GQTR/GPPQRRPAADNLD**H QRPAGAAANRPSGNGHGLGRRRA AVTHPSLNQQLPDKRNRHPKRI CCAGKLSALSGTKRSAMKHS LERVSTKFVWKMTTGACWN GISSWIKR
18080	48448	B	18187	1	3577	
18081	48449	A	18188	2	861	YHSINAASACSAHPVAFILTILT CRTCSSSLVATTSTMRLPNTLP DLIISPVESILSTSCAVPAFIRE PVTTSAPTIGVMANSVAVETAL PGLQEIPTRVQPSWRAVSSPAIT YGVRLAAMP/SHHILCR*INIF QIINTAFPAIFRAHFRVLNGIFSA SNQTNHQTRFHAVCGRTFGDV GWVAKSYQVAEERGSITEHQV QGHQSDDTEHFGGEIERQQQ HYHRQRGDPVGEIGEPELSISR RHHVCHTGYNPAEPVSPAGEIS NGTANGNKLNMSVCEIAP
18082	48450	A	18189	560	2021	
18083	48451	A	18190	525	804	GG*CRNWCDDHYANGCRDTS LYDKLAELGPQGLSPR*NNWQ TARRNQSSGRNSCHLRREVE*R RLDKALRRIRQFSAPDEGAKCP WPGIICDSNHFAFLRCQYGRFL EVTSAAGDEKPYPLVDHVGVL VEQLRCIITAKVTRRHFFYYVLK SIHPAVAGLPAALRDCGELFNSV YCRKPATGPQLQADVMVVVAY GLILRKQCWCRCVLAVSTFMFT AATLARCCNTPLTRAGDAET GVTIMQMDVEIPVVRTTSWQ SLAHKAYHHVETIGRRHGETR VQDET LVTYAEKLSKEERVLTG HFRQHSLNAALRFQSMANELA
18084	48452	A	18191	1	266	SQYPLVAGHEVIGRVVALGSA AQDKGLQVGRVGIQWTRASC G/QLRRLY*R*SDQLRARC GAD DYESRWLCREVACGLAMGDST ARKY

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18085	48453	A	18192	5	385	
18086	48454	A	18193	330	598	VMRFIVVTGPAYGTQQA SFAQALADGHESSVFF VYNANQLTSPASDEF DLVRA/S ATTECATWCGAEYLR SGSITPW RC
18087	48455	A	18194	1	2652	
18088	48456	A	18195	1171	2091	
18089	48457	A	18196	486	837	
18090	48458	A	18197	1	2943	MAIYKQSQHMTEVV RRCPHHE RCSDDGLAPQHLIR VEGNLR VEYLDNRNTRFRHS VVVPYEPPE VGSDCTTIHYNYMC NSSCMGG MNRRPILTIITLEDSS GNLLGRN SFEVRVCACPRDRR TEENLR KKGEPHIELPPGST KRALPNNT SSSPQPKKKPLDGE YFTLQIRGR ERFEMFRELNEALE LKDAQAG KEPGGSAHSSHLK SKKGQSRL GTRFLCQPAVTVIP VKIVRVGT DTVIRPHAEGAVRV QLRVGQA VTCRVCGIRDADIQ IRCGGVNA GQPAGGAVAVTPGL ARAADAD EFAVVVPGQPFHGG QAVRYTA VRQPLRVGRMSGL MLAKTCFR LQVMHRLTLTVFSQ KVFTESIE VVEALKVNLMRVFL RRMDLRQ HRKMIMIDNYIA YTGSMNMVD PRYFLRDALPHCP NPLTGPTFA VLEKLGYPHTFVSD FNTVALD VKFTGIKANDDKAK LKALGEIA HACVDAITIIYCKSP TVAGLVAR ELIKLGHGTPTENP HVVWSPL TVLACILARYRGH CSNTLATNS MLENCAFCSAPPR SLKESTLSL NTVVIIYDNRDGT RSIDKFNRFCI HAFPKIIRNAIYE VEQHT* RACR YQ* DVGWFNIIYQPGIS LAASKH CSTSSR* RWI* LDWI/CASASLL DEATAAAEAMAMAK RVSKLK NANRFFVASDVHPQ TLDLMSY
18091	48459	A	18198	643	776	
18092	48460	A	18199	1	1257	
18093	48461	A	18200	3	346	
18094	48462	A	18201	1120	1335	
18095	48463	A	18202	312	1108	
18096	48464	A	18203	1	744	

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18097	48465	A	18204	381	1112	GVEPSPTNPPTTAIPRATCVA AARAASPSPS*SHQPHPPPLAYD RCST*PTPTTTAGQDHDHGR WRSAPAPRSDHLSMDLQE/RSM SLLPLILSSSTRSGSNPLRSTFLSR SRSISKNCSEA*SV*SNNSAGVGTI STS/RSTYDINRADTQVRRAVN NYDIIHMSNSFNGQSEHQVWIG QQF/ILHQICPLTQFYGAEPDR KE*COAPASKWALLHK*HRPFP QDRKAGECLLHEYEDLYPSVIH
18098	48466	A	18205	2	307	HPARHKFVKGSSSEHRKSPVKPP PIPSH*PP*PENTNPMRPLAPTD VTNLRSLMTGRQRFTPYNNVS RSDPSTTARSSSADRVNASEYP TSSEETSGRSSR
18099	48467	B	18206	1	723	
18100	48468	C	18207	127	1410	
18101	48469	A	18208	1	1773	MGKKQSRKTGNSKNQASPPPP KERSSSPAMEQSWTDNDFDEL REEGFRSNYSSY*EIRIT*WQ TSLKALKRN*MM/ILLASPSR TPISGPNCDPAGPKFVKAAT GKARQRFHPATTTFHGRTPAPP LAHPAPTSTPASTQHPARRHQ VARPDRSSTPLPARIALRVFCPT PSTAPPEHPRQNPAPQTDSA LPGADDVRVSTTDPERRHPHPT NTTTPGGRVLRKELNRPRRPI HHRRRRRFHVQRAWQLPVPHRH HHLDHTSHTRRRRLMTDVRDL RPQPQRPPRITITTVGGDQRLRL DRSYQPESPCDGLRLQLQMAG RAPCSPLSMLVLEKCDNLKTCH TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAAYLSRDQKR MLYLFDVQIRKSDGTLQEHDI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFFRPEEDA GDEKQNAKNEIIGTSSLPQTQFK TDHMSQKDPHKEETSPKVP HLVQESQKDLHKEATNLKVP HHPGPKPQGPPEQGNKPPRPP PPGRPQGPPEGPNPQQLPPPA GKPOGPPPPQGGRRPHRPPQGG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18102	48470	A	18209	944	1577	RLCCLEISSTGYPKSSISSSKYPQ IPRAGAQCSQAV*SGSNPLRSTF LSRSRSISKNCSAEV*SNNSAGV GTISTS/GSTYDINRADTQVRRRA VNNYDIIVMCNSFNGQSEHQV WIGGQF/LHQICPLTQFYGAE PDRKE*QAPASK WALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTRLRFPGGRYLPRAKHVAP SEPDPTHAYD
18103	48471	A	18210	3	634	DRVFDSSGSKWRSEQDWAAAK AVGQCSENGDWCCGNGRYP ARGPAVPA*PSLCLHHPR*RCT CCMPVYR
18104	48472	A	18211	3	255	
18105	48473	A	18212	101	547	TSVELMDLCPRLCRTFSGIPAY SMCIA*EWRNVCGVTGTENVT PSAAAAATASPIQVLTVLSVTS QIRAFSVLPVRRLRRSMLSRLIN TCRTEYPRCAVVCLLWKDAVS CLSTTFCARLCGQNTWLPRPCR HVNRAASDASVSLSTVT
18106	48474	B	18213	1	1113	
18107	48475	B	18214	220	1173	
18108	48476	A	18215	1	509	MPNHKAILIKFKKTEIIPITLLDH STIKIEINIKKIAQNHITWKLNN LLNLYFWPLTVSLCEMCKDFYS LGIEFSRFLQELQNKDCALEK/ HSHWAQMW*YPCPAKHWW CRREHVLVVN/DCSTS*NSYWH FSD*LRAMKRNRNEQCKR*AIRS LSRSLPARQDLKLLS
18109	48477	A	18216	3	281	
18110	48478	A	18217	878	1135	
18111	48479	C	18218	1	1602	
18112	48480	A	18219	33	608	VDSLRFQSPSCSVYSTDR*ISE T**NKL*PPKPVIACPKMWQV GQKFRQKAAATP*KAR*SPRPIP SH*QP*PKIQTRCGPQPQIRSP QKPHDRQTALSHRTTTFHGPTP APPLAHAPTVSTPASTQHPAR RHQVARPDRSSTPLPARIALRVF CPTPSTAPPEHPRQNPAPQTD SALPGAVRG

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18113	48481	A	18220	3	893	NPRKRTEQGKAQNKVQWVLT RTPVMVQKRPTIVSLKSSPDSPL ETYSMFLFLGMWVGVGVEM/C SVKLEEFQVNTYHYQRILLGISS DNAILLEEESEGRPMHISTIKE PSPDSPILYLTNLKLLTSLILFH YGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSPVPTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEYVTKVFALDVAAARHVQF AMPESDAVAMLKQLS
18114	48482	A	18221	1	327	LISLRQRQQRTPGKPGKGRPIP SPWPP*PENTNPMRPPSPTRSGH QPRSLMTGRQRFTTAQQRFTV RPQHHRSLIQRRCQQRQVPI QRGDIRSLVQIGHQRCLRG
18115	48483	B	18222	1	1419	
18116	48484	A	18223	1	2784	
18117	48485	A	18224	936	1157	RTSTGLSGCIRCG/CASEGGQAV FV/WPRGPPETPCSRCPAAEGSP G*SPPREDPSSGSPGKRQTCTQT SARSPS
18118	48486	B	18225	67	1314	
18119	48487	A	18226	302	1423	CRWRFRFIMPFVMA SMSAECL MNYNSTAMSGKTGLQNDTLI ARPWVKPYLGLIIMRIVGN*PH LTWCFCPTMYIPLFSQLCCPV FGQCGAFRNP GHPSPNPEFFLG PRRCNPSLGHKALVQEAASDTP GKS/PGKSPGPPIKPIGP*PGK HKPDAAAPSHRSGSPNPEAS*PE DSAFTHNNVFTVRPQHHRSLI QRRPCQQRVPIQRGDIRSLRF GCFARHHPRHHRNIHDRTRTRP RRLTRHSRGLFEDDVRVSTTDP ERRHPHTNTTTPGPGVRLRKE LNRPRRPIHLRRRRFHVQRAWQ LPVPHRHHHLDHTSHTRRLR MTDVRILDRPQQRPARITITAV GGDQRLRLDRITKPRARP
18120	48488	A	18227	1731	2392	
18121	48489	B	18228	1	1422	
18122	48490	B	18229	298	1464	
18123	48491	B	18230	1	1800	

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18124	48492	A	18231	745	1250	HTQNQRSGRSQND*RRRKNIS ERSAVYR*RQLYIRRPYAERP SLR*RQRP*IPCIRSQHGNKRKIP RRRIFI*QSVLRRRHLLP*RKPE ASAERHKTRC*VSERRPRYHRV KYDYH*KSIYSR*AHGAA*PSH RKDRSADLGDGQNGQDLDC RGGCQPLLLTV
18125	48493	A	18232	1	1661	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLF DQIRKSDGTLQEHGDICEIHVA KYAEIFGLTSAEASKDIRQALKS YAAKEVVLYRPEEDAGDEEGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGLTRRAEDVFPPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWWPDLHIHAEDTLFPYLYGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HLMRLAIETVAHDYDVVIDS APNLGIGTINVCAADVLIPTP AELFDYTSALQFFDMLRDLKLN VDLKGFEPPDVIFIRDKLMERRNR RTGRTEKARIWEVTDRTVRTWI GEAVAAAAADGVTFSVPVTPH TFRHSYAMHMLYAGIPLKVLQ SLMG*YVHCALWMDCAHV** TKEIHSLLHRRHPLQGDKEPL PSPRNSSMPAVYPYWLQRSIRI FQHI
18126	48494	A	18233	162	446	
18127	48495	B	18234	144	2537	
18128	48496	C	18235	1	873	
18129	48497	A	18236	700	1198	PFFGTDFFPWARWCILRHKFW SKGKQRTTKKAPVKPGGSPA1 DHP*PGKHKPDAAAPSPHRS GHQPKTSMTGRQRFHTAQPFH GTPAPPLAHPAPTSTPASTQHP ARRHQVARPDRSSTPLPARIAL RVFCPTSTAPPEHPRQNPAPQ TDSALPGAARG

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18130	48498	A	18237	363	940	LQTVLQGYNSNENSMFVKQKGS PPGKPGKKKPCFWGAPKNGAD IPSQSWRPSGNPGTTPLPKPPSF FPGAPRMGQSQAWGHKGFWF KKGKPTPEPGKKARVKKPPGG QSPKAIGPTRGPGKPPKPDMDRA PKPPTDSGHQTKQPS*PADSAFT PHINVSRSDDPRTTARSSSADRNVN ASEYPTSSEETSGRSSR
18131	48499	A	18238	861	1517	SLRPHLSGFYQARTL*DQRS*A DHE/DISKNCSAEV*SNNSAGV GTISTS/RSTYDINRADTQVRRV VNNYDIIVMSNSFNGQSEHQV WIGGQF/ILHQICPLTQFYGAE PDRKE*CPAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPEDQDEQLRFCKRHLYGQ QPRSPVEIRLQHVIAIYQTHHA
18132	48500	B	18239	1014	2337	
18133	48501	A	18240	1495	1947	IVTLCFPSYCLHCEAGP/LPCGH PWLWLC*VLGSPG*TQRTGSW AMPGVQASKPACG*KVAPAAR RVPHPLHMLPHSGHSAASGGA SCPLCRG*ATGSDQVLKHAFRK GRSSNCASNGTPPNADFLGQD VHPARHKLROKQSAPEPRKKAR
18134	48502	B	18241	1	2055	
18135	48503	A	18242	1	909	
18136	48504	B	18243	184	395	
18137	48505	A	18244	447	667	HRPRRRFIKPPQSQVPEHAPLPL PTASDPP/AHSRCPSESRLSPGG QRLGFPSVVLNCSKCSWQLAAC MGFSF
18138	48506	A	18245	265	890	
18139	48507	B	18246	1	551	
18140	48508	A	18247	407	636	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR */ERDYISIMPKPDGLTAANKLA EAFEHYNECIRI
18141	48509	A	18248	1	1448	
18142	48510	A	18249	817	930	
18143	48511	B	18250	303	461	
18144	48512	A	18251	612	3359	
18145	48513	A	18252	1	462	

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18146	48514	A	18253	268	749	RGGIEYLLLVFILTTRTRFIQAV EHRNRGRRVAEKIVPELITHFM AEIRDLLQRTGVAL/W*HQSA YLPQ*QICALA**IHPGVAAGEY QRRSIQENGKGVQESGQTAS*M RG*MSVESRSGIAARCPESDAQ SGVVHRSRWQSLPARFGAGR DYREAS
18147	48515	A	18254	1793	2193	TQRIPAAQKQGSRCIVDSSAE LSAALAIGNIELVKPSRTMS/DK AAQEIIVNSGKAKRVVSLGPQ GALGVDSENCIVVPPVKSQS TVGAGDSMVGAMTKLAENA SLEEMVRFGVAAGSAATLNQ TRLCSH
18148	48516	B	18255	1	1557	
18149	48517	A	18256	606	1123	QRDNPSGTDGGRNRAFAGAGNI HTRGAAQAVRLVDSFPAQEK DPGESTGRDLSLSSRPQKVAY PVHRNDRR/ERLWFAAPSSPSN ATWGNAEWTLNFSSDSVTGA SSER*NLFLRLATVRCITLPSVS ADGAIVAALATHIGEAELET QCGAWRATFSSTCSLLPLNPN
18150	48518	A	18257	110	318	TALKLPLMSTKVTRCLSNLLK PKFNLPPLVQPPKMLPRHLSR *APNTKTSRLVKKK*PIPIPTRR KT
18151	48519	A	18258	2	3062	
18152	48520	A	18259	4435	4954	
18153	48521	A	18260	1	1959	
18154	48522	A	18261	2	715	
18155	48523	A	18262	1	756	MIRRVSVASGNEYMPRPASYIR TAPITVPSSSPAGTWFAAGNAP SSCGFRDRYLIIVCSHQTPHVP KREEVNYETGIYWLRYHYGTD YSRNAKQRLQRNNLAPILFTTT VPLGGRQYNNSQLPQRQSLE RIRHHTQAFTALIPHGAAGQGC GSGDLHYLSLEDVAVSSKATPD GSGVTRKASANLRVTIQIGGFQ LRTCGFGPSCRCGHPALQISRAL AVAAHQQAADNNMEFANYGP FELLQARQLIES
18156	48524	A	18263	1	799	
18157	48525	A	18264	1	270	
18158	48526	A	18265	2	188	LGFFFRPLFGGQELSKL*EQVL LAPEEVGHLGEHLFRHASEWP APRVQLLLLVVRVQDLQE

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18159	48527	A	18266	2791	3274	SKIFPRHDDLLWRSHRNGDDL RTAGMNAFKQRLTLGLFKITIL TANDYLEADGQ/RSVRKKYPQ AQVSRVAGADLWEELMARAG KE/GTPVFLVGGEPEVLAQTEA KLVRSSATSIAWPLLPICAISS WIRSTAFCCCSWVSEGGKPADRS PAPSRTWLRC
18160	48528	A	18267	202	627	
18161	48529	A	18268	1	2390	
18162	48530	A	18269	1081	1911	
18163	48531	A	18270	86	272	
18164	48532	A	18271	674	2808	FILKLRTRR*RHRLRPWELFQ TARNAEVMKA/LVRHLWLEVK GVDLGRFPERRYGSDDKDLRNP MELTDVADLLKSVEFAVFAGP ANDPKGRVAALRVPGGASLTK KQIDEYGNFVKIYGAKGLAYIK VNERAKGLEGINSPVAKFLNAE IIEDILDRTAAGDGMIFFGADN KKIVADAMGALRLKVGKDLGL TDESKWAPLWVIDFPMFEDDG EGGLTAMHHPFTSPKDMTAAE LKAAPENAVATLGDPLESPDDG LHNRISTHGCFFVLCGISTNIGV ESTARNAWELGFNLVIAEDACS AASAEQHNNNSINHIYPRIARRG RDPQVRVMYIGLPQWSHPKWV RLGITSLEEYARHFNCEVGNNT LYALPKPEVVLRWREQTTDDF RFCFKPATISHQAALRHCDL VTEFLTRMSPLAPRIGQYWLQL PATFGPRELPALWHFLDSLPGE FNYGVEVRHPQFFAKGEEQTL NRGLHQRGVNRVILDSHPVHA ARPHRKLGGTAVWEWEPEGA HWVGDEPGWFSSGDLKAEY WAQKAADSGDADACALLAQIK ITNPVSLDYPQAKVLAEKAAQA GSKEGEVTLAHILVNTQAGKPD YPKAISLLENASEDLENDASVD AQMLLGLIYANGVGIAKDDDK ATWYFKRSSAISRTGYSEYWA GMMFLNGEEGFIEKNKQKALH
18165	48533	A	18272	532	2103	
18166	48534	B	18273	1	4401	
18167	48535	A	18274	343	765	
18168	48536	A	18275	447	709	

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18169	48537	A	18276	1	1571	MIEVKIILKTLQALRNCGSLAA AAATLHQQTQSALSHQFSDLEQR LGFRLLFVRKSQPLRFTTPQGEILL QLANQVLQJISQALQACNEPQQ TRLRIAIECHSCIQWLTPALENF HKNNWPQYSVIFKSGVTFDPHFF FQQGELDPERAFDDFGIKPMAS ASIAQVHSARFNSNGHEVVIK IRAETLPVIKADLKLIYRLARW DAAFAAGWSPPAANLSCAGST KIHRLMNRTCCRNLPPTFSFGA KPGLYLVEAMVGGYRATTVVV VSDTVALS KVS GIELLVWGAG KKQGEANAGSEILWTDGLGVVM TRGVTDSDGTLQLQHISPERSYI LGTLAMVQLREDMAKRQAAGI IAPRSGRRMHRQTQHKPMTTE MGPRAVLREDTIPFLEALKASG KQRILLTNAHPHNLAVKLEHTG LDAHLDLLSTHTFGYPKEDQR LWHAVA EATGLKAERTLFIDDS EGDAMKEKPAVEVRLDKWLW AAR/SL*NPRAG*ND*RR*GAL QRAAHEAEQNRRAECHASAP
18170	48538	A	18277	2080	2274	RFQVVYFDHEKPSLRHE*FALE EYTGTRN*GCVNLLDR*KPPF KFMERWLAFSPGTLLESSRG
18171	48539	B	18278	1	3126	
18172	48540	A	18279	1	341	MLDRLESEILADRVSEESRRWL ASGGLTVEQMOMQMDPVYTPA RKIHLHYCHDRGLPLALISKEG TTEWCAEYD/GMGQPAE*REPA SAAAAYPAGAAV**GVRPVL QPPPLL
18173	48541	A	18280	945	1484	
18174	48542	A	18281	965	1403	
18175	48543	A	18282	703	1149	
18176	48544	A	18283	161	476	LLPWRSCILRSDPLAAHPVI/LV P*ACIFIARNCYPRPSCDSACKL RRESCG*FG*TRMVSAQATFSIQ ITSA/LPFCHELPGRSGDFDTG EDNALSGQRPEFRHG
18177	48545	A	18284	1	443	MLSEPALRELATAIAGVRKGEN DIAVENIIGANIFNIVVLGLPALI TPGEIDPLAYSRDYSVMMLQAG KEVLAIERECLAELDQYINQNF TLACEKMFWCCKGVVVMGMG KS/RAILGEKWPRNVQHRJAN HENRDSIRKICCYHR
18178	48546	A	18285	3	550	

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18179	48547	A	18286	2157	2504	LVSLAGAAAYRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD** RVPRQNALLPVCTSGPYHALA TGCGRFRGQMLKTTVLPRHYK LYLGASSGMRYSTPATALMPLP LPHLAER
18180	48548	A	18287	1	621	
18181	48549	A	18288	1	423	
18182	48550	B	18289	1	1551	
18183	48551	A	18290	1171	2757	
18184	48552	A	18291	347	690	
18185	48553	B	18292	1	528	
18186	48554	A	18293	1	1417	
18187	48555	A	18294	292	699	
18188	48556	A	18295	859	1377	
18189	48557	A	18296	1	3036	
18190	48558	A	18297	1	942	
18191	48559	A	18298	1	2124	
18192	48560	A	18299	1955	2797	GGISIDRSGDH*GRGA VYHVAG R*NAGRTAELYFASRPTCG/RW LVAAVQGAATARISTIEMSVW AQL*QMCGRKIRAT/ISLPEATA QVISSGSGATKVEDGLGLDNKP VSNQNLVTGIDTPVYNAPSAGS APFGVLADNMRYPIHLKDKDR LNQTWYQIRIGDRLAYISALDA QPDNGLSVLTYHHILRDEENTR FRHTSTTTSVRAFNNQMAWL DRGYATLSMVQLEGYVKNKIN LPARAVVITFDDGLKSVSRVAY PVLKQYGMKATAFIVTTRIKRV
18193	48561	A	18300	1	1191	
18194	48562	A	18301	1	298	MPVVFTVFFLWFPSSLVLYIV SNLPRYAEYLTVKDADGSLVD QGIALWFP/GPNSFTGEDVLELQ GHGGPVILDLLIRILTVCLRI ARPACSPRSL
18195	48563	A	18302	1	1011	
18196	48564	A	18303	1	1845	
18197	48565	A	18304	1	755	MSPVIDKMYVDAYQPFSEKIS MQEALKEGAQPLREFMLRQTR EADLGLFARLANTGPLQGPEAV PMRILLPAYVTSELKTAFIGFT IFIFLIIDLVIASVLMALGMMM VPPATIALPKLMLFVLVDGWQ LLVALVTGLIISILQAATQINEM TISFIPKIAVFIAIIIGPWMLNL LLDYVRTLTFLNPPYIGRTMLQ VTSEQ/CAILVKPVLAVTARA GADLHRADSSERTQRTKTGGGF CRYWAG

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18198	48566	A	18305	1	1977	
18199	48567	A	18306	1	630	
18200	48568	A	18307	1715	1996	LFRLLKLTGRRKRSNKS WITTCRGFWGTWCAGWSRP*VVQK CRIYTMWR*WQHAQR*VSPAT LNLGMLITISRKNPHTRK.GAGK HCPFSGPS
18201	48569	A	18308	517	675	
18202	48570	A	18309	480	626	
18203	48571	A	18310	757	1146	
18204	48572	A	18311	318	724	
18205	48573	A	18312	1	1743	
18206	48574	A	18313	1	1197	
18207	48575	A	18314	161	613	LLRQGFIVISAGGKRV EGQIKLVFPAKFEAGFRHGVIANLRLYPF PEEKIGEMATAPLSTSGDCRT* YALIGIQ/PTDGDARGSPRYKPA LALLPACVGSASTPHGRTPIPA IYVPSPT*FRALASDSVAQT*Y CRPASQTRRASPARSL
18208	48576	A	18315	177	425	SRYFSATSTWPLVMSIPVTC PFS PASWLST*QSLPLPLPRSKI QQFCRCSGITRPQP*YDPKSS SEVD AQGSPDHSNHLGLLLRV HFAR LPECAWGPALW
18209	48577	A	18316	1	576	ADSSKKIADIHSVIDGIAFQ TNILALNAAVEAARAGEQGRG FAVV AGEVRNLASRAQA AKEIKALIEDSVSRVDTGSV LVESAGETMNNIVNAVTRV TDIMGEIASASDEQSRGIDQ VALAVSEMDRVTQ QNASLV QESAAAAAALEEQASRLTQ AVIPRSVWQPAHSPINRK HHPVLPIATGALMPGCGS
18210	48578	A	18317	121	1819	
18211	48579	A	18318	1	2151	

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18212	48580	A	18319	3	1127	GTPYASQPVIRPVEGSKPLIKQV LDIGAHTDKTIAQKLARVAR MHFARQLAAVATFACSAQNA IALMEEIAANFSYEMIRL.TECIL GFTWNRL.YQGINVHNAERVRQ LAHDGHEL.VYVPCRSHMDYL LLSYVL.YHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/GRLLDPKTGM LRGGTRPTLPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGGQYVNFGEPM LMTYLNQHVDPWRESIDPIEA V RPAWLPTTVNNIAADLMVRIN NAGAAANAMNLCTALLASRQR SLTREQLTEQLNCYLDMRNVP
18213	48581	A	18320	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPSTMV HGVTLSTMHGCPPEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLGTINNKAL PGDSTSGVLRTYERLLTAWML TCPCADEHQGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQQAIAHMAKPT SSIDVPGRTRNRFGEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTIDIPRC AQSIGSFSGCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQRLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQPKTRWTSQAQLRPQAL DLVSRDGGKHVSTLWKPEIFSL IKLAAQDKDVTIRFVNPAIKQQ LCLDAGTIATGCAKCDPGVSGI AYAYLLTLRAQCLAHDLDPDPLE PLEIDGTLTPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMVPVSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSVRFVSPSVSLRRMADE HGTDKTIAQKLARVARMHFA RQRLAAVGPRLPARQDLFNKL
18214	48582	B	18321	1	1460	
18215	48583	A	18322	2	234	

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18216	48584	A	18323	282	422	
18217	48585	A	18324	1	1974	
18218	48586	A	18325	154	1944	
18219	48587	A	18326	18	386	KACEAVF*DQGLPLGPKVQGGQWDWFFPGPALRHQQSVAHQAGGFRSLWGYSGVSGQCRHSD*SRPGREARRRRSVAG**SHALHRQTALFGARSDADLPAAAPRYLLYRGLSAAHFRPQAG
18220	48588	A	18327	181	655	KARSPEDQGFRRPVHIDGGVW/HLDVGSHPGAIEVGPKGMAVRHLKWAYASWV*NVVRQFGPYLPWALEN/WRGAAPSTRGHGVC/GITVFGKSDGTT/SHDQY*TAPYGSPPHPPGRWSLRHRYPAHLTSSALAFSDARRNAARQPRRWNPISGYSQVICLPAPW
18221	48589	A	18328	1	658	MDDGTSLAPDGDWLWAFIGDELKMGIPENDRIREQKQYLNRKSYLHDVTLRAEPYMYWIAGQVKKRNMPMELVLLPIVESAFDPHATSGANAAGIWQIIPSTGRNYGLKQTRNYDARRDVVASTTAALNMMQRLNKMFDGDWLLTVAAYN SGEGRVMKAIKTNKARGKSTD FWSLPLPQETKQYVPKMLALS DILKNSKRYGVRLPTTDESRLARVHLISPVKCARFSRFVFCPAVCRDSSGADERRTDSGDCQYAGGVKPESVMGAEIVEGFSHISVTSAWSRGDNPAPMAFSRLWLTVFSMVFKRRETVRSLSAVGA GELRGAAPSTRGPEWTHHWCSGCHANGTARSADVPPDMPNSEVKRRSADSGVSGP*RLITAAK VGS*RQLKRTKRVGNPRTSGRYRCRRKRSTCLCKWH*VIFSKTASVMAYVCQRPMAKVLWRVC
18222	48590	A	18329	642	1343	LCLHLPLPTRFRLQL*EEGGPVQPAAMPQWRTLPGGPRPALPLPRRLRGSSLRARPGLRGPRLR*RRHVCGGRRRAPLLLRAGLRRLPRPRAGPVRRAPLCSRRPLLRPLLRPLRLRSRLHGSV*VPSAPRRRRLARGPAGPQARGPSALPFASGSGTARGRGRRRCALAGPRAPPWPLPGCWVSLAGWDPGAVSPRTPGCTQQPKDAGGFRGWSEAGVHDAQTV
18223	48591	A	18330	1	810	

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18224	48592	A	18331	236	717	ALPVGAAFSSTTGFSGFGAGG ASTFGLGGSTGFGGGATGAGS GSNSVLLAAIVAGSSDGAAASP ARTSSAAPSGGCD/QERRIVDFK RNKDGIPA VVERLEYDPNRSAN IAL VLYKDGERRYILAPKGLKA GDQIQSGVDAAIKPGNTRLISYG QHREAWR
18225	48593	A	18332	49	291	
18226	48594	A	18333	75	839	
18227	48595	A	18334	1	579	
18228	48596	A	18335	223	563	
18229	48597	A	18336	1	1219	
18230	48598	A	18337	157	864	RGNRQLQQFPRHWRNRLDGL LLQIQQLIGGHTVERHLVVQI ALVNVNGHPGHADGMWILCIRV LLSLQONGFRVRVPSIGHWTGH* AATDQARLMLGGHINAQFAGI QRLEDLGTQLLHTTNGLVEVE ARRQILQLGLPLFLNLQTDVW AIPGVHVLRFVDVVGDRPS/EVLI DPRQAGLLWKVFATFRPEPTR PAVCCPRGGQSGDDRRAGCAC NHVELVARHRRSCPWHSDRH
18231	48599	A	18338	1	219	
18232	48600	A	18339	1	2226	
18233	48601	A	18340	46	228	
18234	48602	A	18341	382	1431	
18235	48603	B	18342	1	2400	
18236	48604	B	18343	1	912	
18237	48605	A	18344	2267	2539	
18238	48606	B	18345	1797	3411	
18239	48607	A	18346	1842	2560	
18240	48608	A	18347	1	1284	
18241	48609	A	18348	1	792	
18242	48610	A	18349	1	978	
18243	48611	A	18350	757	1011	LFGFRSNGFLIVVCQRLRQAVV NEQFLPETATLTHRGELLFHSP A*LPGVFRLAQM*RHAVIQVF RATGVPEPERCQRPPHER
18244	48612	A	18351	148	679	RMSDDKFDIAIVVGAGVAGSVA ALVMARAGLDVLVIERGDSAG CKNMTGGRLYAHTLEAIIPGFA VSAPVERKV TREKISFLTEESAV TLDFHREQPDVPQHASVTVLRN RLDPWLMQAEQAGAQFIPGV RVDALVREGNKVTGVQAGDDI LEANVVILADGVNSMLGRSLG MVPAS
18245	48613	A	18352	1168	2241	
18246	48614	A	18353	1	1344	

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18247	48615	A	18354	440	886	
18248	48616	A	18355	1	2876	MAGVPGFEPGNAGIKNRCLTA WRYPIRITTLSEGWCGRRDLNSQ EATLQQPLLQAIDLKKHYPVKK GMFAPERLVKALDGVSFNLER GKTLAVVSGESGCVLACTLFA WNRNYFVLLFVGVLSSFGSTA NPQMFALEHADKTGREAV MFSSFLRAQVSLAWVIGPPLAY ALAMGFSFTVMYLSAAVAFIV CGVMVWVFLPMSRKELPLATG TIEAPRRNRDITLLFVICTLM WGSNSLYIINMPLFIINELH
18249	48617	A	18356	606	726	
18250	48618	A	18357	1271	1726	
18251	48619	B	18358	1	1633	
18252	48620	A	18359	1	407	
18253	48621	A	18360	427	2307	
18254	48622	A	18361	120	694	
18255	48623	A	18362	804	1087	KRQHLCTHSGAIRLRJAGVGSW KG/GRPNWRKMAVRWRVPASA VVSGLVRRWHCWVPVAMPSAE SPRIRCGAGCCICRLPLFRGCC TPARLTISH
18256	48624	A	18363	216	436	
18257	48625	A	18364	476	577	FRRWYWGCCSTTRLSHCLTR* M*CMRWSLAVCC
18258	48626	A	18365	1159	3744	
18259	48627	B	18366	169	743	
18260	48628	A	18367	2811	3513	SLPRGWFOPEYGNLEIMEKTYN PQDIEQPLYEHLGPPRVGLRRE LKKAQESYWAGNSTREELLAV GRELRARHWDQKQAGIDLLP VGDFAWYDHLVLTSTLLGNVP ARHQNKGSDVIDTLFRIGRGR APTGEPA AAAEMTKWFNTNYH YMVPEFVKGGQFKLTWTQLLD EVDEALALGHKVKPVLAGPGT WLWLKGKVKSEQFYRLSLNDI LAGYQQGLAETGVGPDIVTA

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18261	48629	A	18368	1	2810	MKQTVYIASPESQQIHVWNLN HEGALTLTQVVDVPGQVQPMV VSPDKRYLYVGVPEFRVLA RIAPDDGALTFAAESALPGSPT HISTDHQQGFVFGVSYNAGNV VTRLEDGLPVGVVHVVDGLDR LARQLIKNLATLKAGNARVVN SNAMSFLAQKGTPHNIVFVDP FRGLLEETINLEDNGWLAD ALIYVESEVENGLPTVPANWS LHREKVAFAAGAPYHYLNHTL GFPRVGLRRELKKAQDSY
18262	48630	A	18369	2279	2563	MNFGASLNSPTPRSYLSLGG EKAPVWEHTLGVPSRRPAAG KKAPERYWGGEHPVKKWLG G*ARKCRPRPWETL*KSHLR RRPSLGPWAGGL
18263	48631	A	18370	481	1020	
18264	48632	A	18371	1	998	MNENFGTQICVNNRSLFTDC SGYVTRYDHRFGQVTAHVREE GLSQYRAYDSRGQIAVKDTQ GHETRYEYNAAGDLTTVIAPD GSRNGTQYDAWGKAICTQGG LRSMEYDAAGRVIRLTSNGS HTFRYDVLDRLIQETGFDGR TQRYYHDLTGKLIRSEDEGL VTHWHYDEADRLTHRTVNGE TAERWQYDERGWLTDISHIS ERHRTVHYGYDSKGRLEH LTVHHPQTNELWQHETRLA YKRTGLANRCIPDTPCPV NAYLGTACQHEICDTPWL SYRDPFTGKSWLSGRYEL HKRIYGITAKERKDVDVW HPDVRFELYDENNELRGS FYLLDYARENKRGGAWMD DCVGGMRKADGSLQKPV AYLTCNFNRPVNGKPA LFTHDEVITLFHEFG HGLHHMLTRIETAGVSGI SGVPWDVELPSQFMENW CWEPEALAFISGHYETG EPLPKELLDKMLAAKNY QAALFILRQLEFLFD FRLHAEFRPDQGA KILETLAEIKKLVA VVPSPSWGRFP HAFSHIFAGGYAAGY SYLWADVLAAD AFSRFEEEGIFN RETGQSFLDNI LSRGGSEPM DLFKFRGR EPQL*HTV VELPRPFH REILAFRPL* ITQAYLRHHR* RA*RC*CLASGC

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18265	48633	A	18372	409	533	TGNDAPVPAQSAQYRYLQ*SV RNFRLSFRGLNLSLPHYVDD VIPLMAEGKILPYLDPLQHAS RILKLMKRP
18266	48634	A	18373	222	659	SAGSVKTRQSGANKQRRTRSR ASFC/ETLSSVFPARWKISFLIP VGLPISNNYVCSLNPVWCAMR LNMPPMSKSCWQKHWSKTVS RWITTRHSFVQTLISTACWRRSP VTQSSWRSFACSTGLLSHAPP LPIRCHTNITNVWY
18267	48635	B	18374	1	1527	
18268	48636	A	18375	1	1005	
18269	48637	A	18376	2	314	WVSYCSGSTLL/LRLAQECQR QQGPWASAGDPGEGAGERERL PQALASPLQVKPARQ/RDPGL RTDPDGDASPALNGHIFALPA GTAGDCFP RPGRKNSGT
18270	48638	A	18377	3	576	
18271	48639	A	18378	189	563	QGRGSSRPGCGHLDPGGEWL PQRPLQLCLCPAYILIFAGVL VMVTGLGFGAILWERKGLS TTTGDRFWKDRQFWTCR/WQT SHRNQSGAGGQWDRFRSHQGH RDHEGRTSNWGS GFPREVA
18272	48640	A	18379	1	531	
18273	48641	A	18380	1385	1673	AASDRAAETG**KTR/HRWFL SVKLRTSTPTAVSPKK*KRLAW TRCMTPPSKR*KKRVTIPSSPT SLTSTLPGATVATSPVMRVWN CSTAVCRS
18274	48642	A	18381	1	921	
18275	48643	A	18382	1	2115	
18276	48644	A	18383	2	149	ARRNESRRGR*HPCRPIT*GT VNQRPA GFRFAGPF RYSGKPG RERL
18277	48645	A	18384	482	1655	
18278	48646	A	18385	1	776	MENACVLLMGVLSTFLVSWLG KDAMAGVGLADNFNMVIMAF FAAIDL GTTVPGAFSLCKRDRR QARVATRQSLVIMTFLPVLLAP LIHHFGEQIDFVAGDATTEVKA LALTYLELTVLSYPAAAITLIGS GALRGAGNTKIPLLINGQVAML MQAPYYFQEAQIEAAIAAMDV APEYADIRQVESSTAVLYLFSE RFMTY GKA YGLCEWFEGSRLSI AHIPVTDNDNETQYHFRQSCQ HC/DRCSVHRLPDGGVVA

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18279	48647	A	18386	1017	9228	FGRGAGVQC*RGDRGQRRDEA GDGRLRLARL*ALYQTITHDLR YRHKNLVYRRKLASQRVTEHVN RAGLRYSYQYKEDCITITDSLA HNKVLHTQGEAGLKRUVKKK HADGSVTQSQFDAVGRRLAQ DAAGRTTEYSPDVVTGLITRIT PDGRASAFYNNHNLQTSATG PDGLELRREYDELGRLIQETAP DGDITRYRYDNPHSDLPACATED ATGSRKTMWTSRYGQLLSFTD CSGYVTRYDHDREFGQMTAV
18280	48648	B	18387	1	1431	
18281	48649	A	18388	575	835	RQKPERYLTAFTITLPLRWMT LVRVMRPVTCRRSRILLSIS HLCKWRVSTKSPVILWTILSN* RLFWKSWR*NLQSKYQDG
18282	48650	A	18389	1207	2465	ASTAQHQHLLSPAKEETTGWRI FHSPDPWALGRSQGGAGLIQPP EVQKGSVRYRARFALLGPAMV AHRHTGRPEIRYRYDSDGRVTE QLNPAGLSYTYQYKEDRIITD SLDRREVLHTQGEAGLKRUVK KEHADGSVTQSQFDAVGRRLA QTDAAAGRTTEYSPDVVTGLITR ITTPDGRASAFYNNHNLQTSATG PDGLELRREYDELGRLIQET APDGDITRYRYDNPHSDLPAC TEDATGSRKTMWTSRYGQLLS FTDCSGYVTRYDHDREFGQMTA VHREGLSQYRAYDSRQGLIGV KDTQGHETREYNIAGDLGGI APEGG/RNG/TQYDAWGRRRTT /QGGDADDRSAGGTRARKGHT SFRSVDGRTVSRHGYPGRNLR RMVRSSVPLYRLTASIAVPVQE YRFPHPQSEEVY
18283	48651	B	18390	1	2604	
18284	48652	A	18391	1	2640	
18285	48653	A	18392	1	549	
18286	48654	A	18393	290	389	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSV
18287	48655	A	18394	1095	1268	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSVAENARSACRC RRSAHAGRLFQTAS
18288	48656	A	18395	1056	2178	
18289	48657	A	18396	1	669	
18290	48658	A	18397	1628	1856	
18291	48659	A	18398	227	668	
18292	48660	A	18399	1	3186	
18293	48661	A	18400	291	631	

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18294	48662	A	18401	1	1437	
18295	48663	A	18402	345	727	
18296	48664	A	18403	870	1043	
18297	48665	A	18404	1	2175	
18298	48666	A	18405	1	1332	
18299	48667	A	18406	1	1566	
18300	48668	B	18407	1	921	
18301	48669	B	18408	1	2487	
18302	48670	B	18409	1	2919	
18303	48671	B	18410	1	2214	
18304	48672	A	18411	1714	1979	RLAWRLAGRWAGSWRTSTIP PAAACSRRLRCSPPSKFCSAWCR WCSTRACSSCCRSSTSSPMPAWR PSAGS*LTARRRAPPSALVLR
18305	48673	A	18412	1201	2118	PSRQADKENRHPGRGVYPARM MSGLTGTHITVTGWCTTRGHN MKSRWSKVAIFTRWGRVAK RVWRRERDLTGWMSLSRKPVQV TWYGDGDLRTTIQNDRTRIQ TIYQPGSFTPLIRIPVLGGDDTT MDCLRTSIRLNAASVTCAVRRD QISMPGSRKEVVNAREEGVEFQ FNFQPYIACDEDGRLTAVGLI RTAMGEPGPDGRRRPPPVAGSE FELPADVLIMAFGFQAHAMPW LQSGIKLDKWLIQTGDVGY LPTQTHLKKVFAGGDAVHGAD LVVTAMAAGRQAARDMLTLF DTK*PGTAGTATG*PQYRTTEP ASRRFISRGASRHSSEGS/SVLG GGDDT/MGLFADHPPQCRQRD UPYRRDQISMPGSRKEVVNAR EEGVEFQFNFQPYIACDEDGR LTAVGLIRTAMGEPGPDGRRRP PPVAGSEFELPADVLIMAFGFQ AHAMPWLQSGIKLDKWGLIQ TGDVGYLPTQTHLKKVFAGGD AVHGADLVVTAMAAGRQAAR DMLTLFDTKAS
18306	48674	B	18413	1615	1656	
18307	48675	A	18414	1287	5056	
18308	48676	A	18415	1	271	
18309	48677	A	18416	1	588	
18310	48678	A	18417	2150	2332	
18311	48679	A	18418	1	238	LEELGVIGAVLVGFSL*VLWAP LQLPKAGGRVKVAGIQLGEVEF WKVS/KSCSSPDPPPGVMAAKIS ISQALQPPQSTR
18312	48680	B	18419	1	2721	

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18313	48681	A	18420	712	1031	PVMRQRGVFRSILKRSARCC QMIQPRVISHAMYSLSPPFALR RSTKSPKRFSMNNS*ASRSSGST SRDTS AIS*ARRSISRRLIRS LISLISLLVNVV
18314	48682	A	18421	1	1779	
18315	48683	A	18422	693	921	
18316	48684	A	18423	758	1183	ALTAASRSECAVIMMTGRTSCC DIVEKWIPARCCQMIQPRVISH AMYSLSPPFALRRSTKSPKRFS MNNS*ASRSSGSTSRDTS AIS*A RRSISRRLIGWRSWLYTILI NSIPTNRAKSMKPEPSNACSK VKRCC
18317	48685	B	18424	1	708	
18318	48686	A	18425	1	2436	
18319	48687	A	18426	1382	1813	
18320	48688	A	18427	900	1028	AGYAAPGRTRDRSSPSG*GYRY SGCYQICRQPGRLGSRKSPV
18321	48689	A	18428	1	881	MTPSRFAKKNGLVKRCMPGI DAEVTMIKPIAARPKVSHSKVR SYMIRLSVSFSREPIQPFSAVEI QTRIRYGVSGFFLRVDTEHHP DRHAARALQYHITGSNRCDAIN AVQFDTAGGECTNRRMAEDHG RNVAVIQMLRLVIKQAFREVP SELWTRNRKQACPFDFDCGENS AIAANNYDWFNGMNVLTFLRD IGKHFSVNQMINKEAVKQLRN REDQGISFTEFSYNLLQGYDFA CLNKQYGVVLQIGGSDQWGN TSGIDL/NPSSASESGVWPDRSA DH*SRWHQIW
18322	48690	A	18429	1	3270	
18323	48691	A	18430	1	374	MKTCWQILEIESTTQIDIRQAY LARLPLCHPETDPQGFALRQA YEEALRLAVNPVEEADDEEKD AAAEHEILRAFRT/FTGFRK*SFS AFRLAEIYSAIKYLEHGGRCSIT LAAVCNHRHSAI

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18324	48692	A	18431	63	1272	LRSCNAVVCW*CVATCPSGE EDGIVLIDQDKCRGWRMCITGC PYKKIYFNWKSQKSEKCFYCYP RIEAGQPTVCSETCVGRIRYLG VLLYDADAIERAASTENEKDLY QRQLDVFLDPNDPKVIEQAIKD GIPLSVIEAAQQSPVYKMAE WKLALPLHPEYRTLPMVWYVP PLSPIQSAADAGELGSGNGLPDV ESLRIPVQYLANLLTAGDTKPV LRALKRMLAMRHYQRAETVD GKVDTRALEEVGLTEAAQEM YRYLAIANEYDRFVVPSSHREL AREAFPEKNGCGFTFGDGCHGS DTKFNLFNSRRIDAIDHQEMF EATAASKNLPKEDAHALGIFLR DLTTMDPLDAQYQSELFDGRG RATSLLLFEHVHGESRDRGQA MVDLLAQYEQHGLQ
18325	48693	A	18432	2	859	WPLRRSPYSIINGSGKSAASGSV MQVAQFNSHYQYDPKFERGM YLYEHRRCFNNIIDYCNSLCYH AWLVAHKDDIERNYRGPLVQV VGWCDALFGAEELGISRAQFDQ FLRMMQGGAGQGGGYQQQTG GGGRPGGHFFEKRRLLRMVDR LNARFTGGVLVSFKGPLLEGFG PWQGLSPWVIGPDLGLPG/CLG AWGAVSVCHCPWVCKTGSFPR WVPHRRFHPPPG*KFPENWMG FCSSRTCSGLFSHPHSPTMAFKN FELGHGTPPRGTRNRPTMSSNT YRPHRFQ
18326	48694	A	18433	479	601	CWRPLPAEKRWYLAANWW RLAARFVFPMLCVRQ*PSSMIW TTPDADIAIGTWRSACAVLRGR KMPVSSITMRRRCY*CWRPLPA EKRWYLAANWWRLAARFVF PMLCVRQAAPYTK
18327	48695	A	18434	69	194	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNR SARV
18328	48696	A	18435	173	298	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNR SARV
18329	48697	A	18436	1	1734	

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18330	48698	A	18437	851	2202	RQKRLIFCCVKGKNWPP*WRW LNEKLPCSLMLLPTLPPSVLGIR LQNQLQRQFVRQGGVWMPGD EVKKVTCKNGVVNEIWRNHA DIPLRPRFAVLASGSFFSGGLVA ERNGIREPILGLDVLQTATRGE WYKGDFFAPQWPQGFVTTDE TYARHRQGKPLKTCCLPSVRCW ADLIPSPRDAVFPVSVLYMP LNRLPNAQEANNE
18331	48699	B	18438	1	5301	
18332	48700	A	18439	710	889	
18333	48701	A	18440	1622	2615	
18334	48702	A	18441	1	1309	
18335	48703	A	18442	1	266	PRQCGFMKKRLENGDDYFAVN PRGRCLHCCWMTVLC*RRKRS YAVSCRQRPRPPVLA/PVNSISRS VSPYTPPEYKPTVRAQLEKNCN M
18336	48704	A	18443	267	395	
18337	48705	A	18444	1	3807	
18338	48706	A	18445	1	2193	
18339	48707	A	18446	1278	1846	SCRSA PRNRHQIPGTYRSRLPRH TTPPGYDHNKRNPNLYISTRQK RDAFFAVQYHSLYYRQTLLPN DHNQSVDR*FVFR/L* NQNGYNS GRHLYWRYHSYNAWL*LCH HPVYYRLYYIFLQPVQMMPQ CPSPLMPECSFSFSLILINA/SNI QRESPVENRKVFNLRLKIIYYR LIJLCKGNLLNL
18340	48708	A	18447	1	2106	
18341	48709	A	18448	881	1401	
18342	48710	A	18449	1	233	MMGFDGTVQYMASLGAPMPM LAA/MYCGSYGSARRDINRAW LFHPSAGGAVYFLHAGYGGDW SPLLGYDRRCGWAKYD
18343	48711	A	18450	1	1960	
18344	48712	A	18451	563	928	FAIKSSPKA QALWHVLYH*AV N*TNIFKTEKPIFNRGKFRPTP TRQLRECWIWVGSASCQLTKQ AVVARWTIILMRRRKGWHGGA IILMPGGPRLKQVPRQFCKPPA AAARLSKSMGR
18345	48713	A	18452	1	828	

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18346	48714	A	18453	1	1327	MMQKPATVDEEESPRETHRYSVRRRGELIVEAGGRAENTVVTGAGWLK VATGGIAKCTQYGNGLTSLVSDGAIATDIVQSEGGAI SLSTLATVNGRHPEGEFSVDKG YACGLLLENGGNLRLVLEGHRA EKJILDQEGGLLVNGTTSAVVVDEGGELLVYPGGEASNCIEINQGVFMLAGKASDTLLAGGTMN NLGGEDSDTIVENGSIYRLGTD GLQLYSSGKTQNLVNVGGRA EVHAGEVTGDHVEITDASRQTL CNALKLQPDGEGSSRVPTCK ASRLRIDANFKRFVDEEVLPGT GLDAAAFWRNFDEIVHDLAPE NRQLLAERDRIQAALDEWHRS NPGPVKDKAAYKSFLRELGYL VPQPERVTVTETTGIDSEITSQAG PQLVVPAMNARYALNAANAR WGSLYDALYGSDDIPQEGAMV SGYDPQREAMECP
18347	48715	B	18454	71	4995	
18348	48716	A	18455	1	3572	MARKRKRNRNSKIGHGAISRIG RPNPPEPCRNRYAQKYLTLAL MGGAFFVLKGCSDSSDVNDND GDGTIFYATVQDCIDDGNNAI CARGWNNAKTAFYADVPKNM TQQNCQSKYENCYVDNVEQS WIPVVSGLLSRVIRKDRDEPFV YNSGGSSFASRPVVPSSIVIMS YGLASYVIAVAFLEDRDRIQAAL DEWHRSNPGPVKDKAAYKSFL RELGYLVPQPERVTVTETTGIDS EITSQAGPQLVVPAMNAR
18349	48717	A	18456	485	1999	
18350	48718	A	18457	44	270	
18351	48719	A	18458	1	2223	
18352	48720	A	18459	290	756	
18353	48721	A	18460	8	314	
18354	48722	A	18461	2	686	
18355	48723	A	18462	1	732	
18356	48724	A	18463	1	780	
18357	48725	A	18464	101	435	
18358	48726	A	18465	805	993	
18359	48727	A	18466	452	2180	
18360	48728	A	18467	691	1443	
18361	48729	A	18468	1	320	DPRDCRLKVGKEMFTLFGPQF VRELQQRGFDIFLDLKFHDIPNT AAHAAAAADLGVWMVNVH ASGGARMMTAAREALVPFRPD APLLIAVPV*RSIKASDLVVPL

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18362	48730	A	18469	632	796	
18363	48731	A	18470	129	425	TDIITRQNGTGANIDAEIATKA STGLFVYQPRFARCPVMSSGY HTATRGSSGRTVRARVCHTA AGVYVGSSKQTQF*NRFCQRKCR RYPDGCRRRA
18364	48732	A	18471	1	1062	
18365	48733	A	18472	1	996	
18366	48734	A	18473	1	1004	MLRVYHSNRLDVLEALMEFIV ERERLDDPFPEMILVQSTGMA QWLQMTLSQKFGIAANIDFPLP ASFIWDMFVRVLPPIPKESAFN KQSMWSKMLMTLLPQLLEREDF TLLRHYLTDDSDKRKLFLQLSSK AADLFDHVSAGSVSSKVEQLR AQLNERILVLDGGMGMTMIQSY RLNEADFRGERFADWPCDLKG NNDLLVLSKPEVIAAIHNAYFE AGADIETNTFNSTTIAMADYQ MESLSAEINFAAAKLARACADE WTARTPEKPRYVAGVLGPTNR TASISPDVNDPAFRNITFDGLVA AYRESTKALVAGIVLMPAIPAL WEAEPGGCA
18367	48735	A	18474	606	846	
18368	48736	A	18475	3042	3933	GPHPAPGPGA/CHYDVHQPYL RQRTEDRRTRHYLAQSFAQYSL RQWAFHFLLDNITPDIQIVIAH TRRTGGFTITASEAAIEMLLCFK RDFVALQHLFNQIDAPARAVQF IAQKLIGWACCEAARKNQLPH NTTKRSLMSILYEERLDGALP DVDRTSVLMALEHVPGLEILP TDEEIIYPQCDGLSA/YRTRPLL VLPKQMEQVTAIVACHRLRV PVMVFPGLRLSREAFLLTAEFG TQELRRPAQLRLQVYRLSTAG RHHPAQNSPIRVLEVDIDLLGG TQELWG WKETH
18369	48737	A	18476	869	1639	ICSRCKSTRTSPTCRKAIVIL VCFVIRELLVVAPELTIIG.PEG NWITVSKGMLAKSPVDSNSTQ LKEAEERLKAQYGLQLVES QNELQNQLDKCRNEMMTMT MQLRNKKRRRELGNLIKRRFSG AESLPDAVVLTEEGGIFWCNG LAQQLGLRWPDENQGNILNLL RYP/EVYAISENA*FFSPAQSGA QHRAASGNSRHALYPQTVADG GA*CHANASTGRGA*LFQCQRE P*VTYAI DRV TGLPGDDE

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18370	48738	A	18477	388	2356	
18371	48739	A	18478	137	318	GGQLSSWAMDFCHL/PAFWNS MTWHLQRLWGACGYFWHAQ WERLLTTFEGNEWILIFIGGIL
18372	48740	A	18479	923	1149	
18373	48741	A	18480	1	373	
18374	48742	A	18481	168	360	
18375	48743	A	18482	1	147	
18376	48744	A	18483	161	440	
18377	48745	A	18484	277	2172	
18378	48746	A	18485	164	406	LFRREGSYDRYLLMDDYCRRK DDSYFDRYRDSFDGRGPPGPES QSRAGKGVAETVYSSYY**NTL QKREETNNQYPHLKKG
18379	48747	A	18486	405	999	
18380	48748	A	18487	64	288	
18381	48749	A	18488	159	550	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGNGRYGLA IGANGSGKSTFMKILGGDLFPT LGNGSLDPNERIGKLRQIDQFAF EEFTVLDTVMGHKELWEVKQ ERDRIYALPEMSEEDGYKVAD
18382	48750	A	18489	3	481	
18383	48751	A	18490	2	233	
18384	48752	A	18491	2	3026	SVPTIIFFLPVLRFWRPGIQA KKCHLFA GTQSRRTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRFTRFRRTPT WRLLGHCVSAAVTGVLPAVAG SPLAYS DTEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSPLS AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTE DNG EVWQWVDDALTFFLEIIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGLFI
18385	48753	A	18492	2714	3079	RLIGLRMVREFVGLIRRASVAS GSWHCCMRMRKRLIRPKPSILQ SMLWSPSTRMFFTLVPFISIEE LPFTFRSLMMVTLSPSASRLPLA SLTISSSLSCAGSASFHS*AHSG QMYMPLSS
18386	48754	A	18493	1	888	
18387	48755	A	18494	1778	2025	
18388	48756	A	18495	1	1425	
18389	48757	A	18496	3	96	FVGRIRRLRRIRRY*FTPLTD*LS CAHQVP
18390	48758	A	18497	420	955	

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18391	48759	A	18498	533	1006	RPSIFACVSP*RINHSRIMPQTN AKNAKPNAQVMRGVISRRRR AMLFNSNAITRPTTSFTMAITS ASSSPPAVKVSICPHGINTPTNIC NTTSCFRLIPHMTPKPLPLYSE SGPSCSSCSASARNSGLPISIKV ANAQAQSASTSGMLWLSGQ
18392	48760	A	18499	3	418	EWHYLSADRRQCAFQGVSRKT ATVCHHPVDYYAGSLYRLYFT DRLRLARLAGHAAES/GTPASHA VFQLVLE*L*SPLFSPVSTSGGR TANSTVLIMKSCMSGAVEROPT NWQAILMFLIFVVTGLITYWA SNAYVLAG
18393	48761	C	18500	63	500	
18394	48762	A	18501	1	1107	
18395	48763	A	18502	1	153	
18396	48764	A	18503	88	510	
18397	48765	A	18504	204	654	
18398	48766	A	18505	241	771	
18399	48767	A	18506	1655	1909	
18400	48768	A	18507	2	48	
18401	48769	A	18508	1	585	
18402	48770	A	18509	1	723	LQPPGRRWAAPAV\SGLSRQV\ RCFSTSVVRPFA\KLVGPSVQV\ SVIEGRYATALYYAASRQNKL EQVEKG\LLRVAQILEGTPKWA ASVLESPMLKAFPLKVKKPKM TITAKVGGSLPLTYQTLINfall ENGSD*GNYPRESFGLFLTMD GVFHSRERV\CTV\TSGIFL*EG RPQFSEFKNCSRGFLRSRAKFL KLGA\TDPSILGGMIVRIG\K YVDMSVKTK\QKLG\RAMREI
18403	48771	A	18510	400	894	
18404	48772	A	18511	1	1023	
18405	48773	A	18512	73	424	RPGMWSTRSPNSTA WPLSLEPD PGMASACTTMHTTTTIAEPDPG MSGWPDGRMETSSPTMDIVVI *CAIAAAEAI\VLVSLFVMLRYM YRHMGT\YHTNEAKGTGVADS ADACPAAGDPA
18406	48774	A	18513	141	563	RPGMWSTRSPNSTA WPLSLEPD PGMASACTTMHTTTTIAEPDPG V\SLP\PDGRMETPTPHP*LTMV VIAGV\IACLWPFVLSLPSSFVM VALTLLTGHKGARTTPNEAKG\ TEFAESIADAALQG\DPAL\QDA GDSSRK\EYFI

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18407	48775	A	18514	182	935	QAFELHCPCKPKFSTLPSPAWPP RHTDLRKRGRRTAQ*YAGNES HPPSLPRYLRRSRH/SRMQAPSS TCSYSHTSLQCSPAPQNH/AQHP *PALEELACG/SPSVSSPYLVLSS CQEQPHHCCPPSTPRPSW/CPSS GDAICYSPGQ/CPRSRGPL/EDS SDSPPAEQVLPSSGSHNTLYLR CKRFSAFILNCEPPSK/C*KPGHR CRS*AGILTLLPPG/ERG/ GDGP CSTGRQASAKTPPPSPHTGHS LWSEEK
18408	48776	A	18515	48	676	KARLTWQOTREESLCRETPPYK TIRSRETYSLPREQHGKDLPP*F NYLPPSPSHNTICPG*QDQGRFT QPLYLRCKRFSAFILNCEPPSK/ C*KPGHRCRS*AGILTLLPPGGE AQHFVKVHPSIPL/REGGEVGIK PKKTSPTGTELLMQP/CHQPSPT CQAPRKSNNR/LGCLSPMLKHS TLGYLLWLQKATWLKGFSGTSG W*M*GRFHL
18409	48777	A	18516	86	92	TANAALHQPSRPTCQAPRKSNNR RQAA*ALNC
18410	48778	B	18517	1	2031	
18411	48779	A	18518	98	367	DLFLYLSWQHCHPYSHCHPNQ KPGRFLMKLSS/ETVTIELKNGT TRSHGTJHQVVDV/QMNTHL KAVKMTLKNREPVL/ETLSIR GNNIR/YFILPD/SVYPLDILLVD VDPKVKSKKREAVAGRRRRG RG/TRDVARGR*RGNNIR
18412	48780	A	18519	1	310	
18413	48781	A	18520	37	136	RRRPSSSWALPPSRGPSST*AER GAQHQQPVPA
18414	48782	A	18521	3	305	FFTLCLQWGLFSCSPICSGVGR YWA*VCLCFLQIEAIELPMDPK LNKRRGFVFIITKEEPPVKVL EKKFHTVSGSKVRCSQLCLASC AAGELALRGMG
18415	48783	B	18522	249	367	
18416	48784	A	18523	1	1008	
18417	48785	B	18524	17	835	

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18418	48786	A	18525	2	1188	SLIKLNSPPRGGGTARYGAWL LVGGFPCGGGQGGDVTGAAP WADWGEASAAASFVLAEC ARLSSLRVGDEAGSRGVIWRAR SPRLGLALSEAGVEEQPMETT GASENGHEAVPEASRGRCW TPLRRGLEARPRPRAGIRTAPR D/QRINASKNEEDAGKMFVGG SWDTSKKDLKDYFTKFGVAV DCTIKMDPNTGSRGFGFILFK DASSV*KVLDQKEHRLDGRVI DPKKAMAMKKAPVKKIFVGG LNPEPTEEKIRESFGFGEIEAI ELPMDPKLNRGRGFVITFKEE EPVKKVLEKKFHTVSGSKCEIK VAQPKVYQQQYQSGGRGN RNRGNRGQ/GGGGGGG*GQGS TNYGKTQ/RRGGHQ\NNYKPIL EAGRQERPT
18419	48787	A	18526	3	784	PAMNGLSLSELCLFCCPCPG RIAALAFLLPEATYSLVPEPEP GPGGAGAAPLGLTLRASSGAPG RWKLHLTERADFQYSQREVRST IEVFPTKSARGNRVSCMYVRCV PGARYTVLFLSHGNAVLDGQMS SFYIGLSRLHCNIFTYDSSGYG ASSGRPSERNLYADIDATWQAL RTR*GRPLVGRVRARWRPRLTL LRRRQVRHQPGQHPSCCTGRSIG HGAHRGTWPRATSVPRWCCTR RSTSGMRVAFPDQERPTASTP FPYIRERCPRLTSPRAHHPTGTK DEVIDFLEAGWRSTRRCHQGG GAAVGGGGPGHNDIELYSQYL ERLASLSFSQELPSQRA
18420	48788	A	18527	3	1990	
18421	48789	A	18528	82	406	

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18422	48790	A	18529	2	1474	ARASGSGSSSGQGKMGQSIQRG GHGSGGGKKDDKDKKKKYEP VPTRVGKKKKKTGPDAAASK/L PLVTPHTQCRLKLLKLERIKDY LLMEEEFIRNQEQMKPLEEKQ EEFRSKVDDLKGGPRLSVGNL GKRFDNDNHAIIVSTPVGSEHY VSIL/SFVDKDLLEPGCSVLLNH KVHAVIGVLMGDTDPLVTVM KVEKAPQETYADIGGLDNQIQ EIKESVELPLTHPEYYEEMGIKP PKGVAILLVPPGTGKTFLPKAV ANQTSATFLRGGGSELIQKNLG DGPKT/LSRELFR/VSEELAPSLR FIDRILPPLGTRKYVDSNNGGE/R EFQRTMLELLNQLADGFD/SRG D/VKVMPTNR/NETLPALIRPR PAFDRKYEFP/LCPDEK/TKKRIF QISHKS/RMTLADVGTPWTTLI MAKDDLGA*PSKAICTEAGL MAL/RENRRMKVPNEDFKKS KENVLYKKQEGTPEGVVSMLN PWLVIKRMVGRFLNP
18423	48791	A	18530	2	274	WQDLICRMAASVKEQSTKPIPL PQSTPG/ESHSLSTSGKSEVRDL FVAERQFAKEQHTDGTLEKVG EDYQIAIPDSHLPVSEERWALD ALRN
18424	48792	A	18531	3	844	

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18425	48793	A	18532	261	2814	VRFNRLIRIVCNIKICAVSHCPP KVFKLNSLFFLHRFDSVAFGES QSEDEQFENDLETDPNNWQQL VSREVLLGLKPCIEIKRQFVINEL FYTERAHVRTLKVLDQVFYQR VSREGILSPSELKIFSNLEDILQ LHIGLNEQMKAVRKRNETSVID QIGEDLLTWFSGPGEELKHAA ATFCSNQPFALMIKSRQKKDS RFQTFVQDAESNPLCRRLQLKD IIPQMQRLTKYPLLLDNIKYT EWPTEREKVKKAADHCRQILN FVNQAVKEAENKQRL/EEDYQ RRLDTSLLKLEYPNVE/RLRN MDLTKRKMIHEGPLVWKVNR DKTIDLYTLLEDILVLLQKQD DRLVLRCHSKILASTADSKHTF SPVIKLSLTVLRQVATDNKALF VISMDSNGAQIYELVAQTVSEK TVWQDLICRMAASVKEQSTKPI PLPQSTPGEGDNDEEDPSKLKE EQHGISVTGLQSPDRDLGLEST LISSKPQSHSLSTSGKSEVRDLF VAERQFAKEQHTDGTLEKVEGE DYQIAIPDSHLPVSKE/RRALDA LRNLGLLKQLLVHQLGLTEKSA LENWQHFFRYRTAFQGPQTDS VIQNSENIKAYHSGEGHMPFRT GTGDIATCYSPTSTESFAPRDS VGLAPQDSQASNILVMDHMIM TPEMPTMEPEGGLDSDGEHFFD AREAHSDENPSEGDGAVNKEE
18426	48794	A	18533	90	383	ILQLHSSGCPCLLWL*LSFRSLST TAVICQCCRPAADFHPSGSSRV AVLLIQ/HRRPLPLPIGLKACYFS ALSLQTSLTCLGLVVLDDPPE AASLDKV
18427	48795	A	18534	1	456	
18428	48796	A	18535	830	1092	

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18429	48797	A	18536	391	1824	GSGADASGFISDAGLIFKKAASK GPKRLEKFSDEAAAYFRCYHKL FLLFSSLCYGTYHVVLPTLKP REDEDWISLCLRHCLMQKDDTH SMLGECGERREGKKQKTGALG SSLSLEDAKHLPLFIPALPFSWN ALPQDLNCFVLLWDYRIRVD PSPiAGTLIRRDTPQGESHVKT GRHWSDTIKSQRCCQLRQPPDR PIPILLMVKGQHVWPSQLDKAQ IQEVTELNNVKNVARLPKSTKK HAIGIYFNDDTSKTFACESDLEA DEWCKVLQMECVGTRINDISL GVEPDLAATGVE/REQSE/RFN YLMTSP*LRMLHG/ECA/LQV/T YVEYICLWGRPRTQPQEFKLISWP LSALRRYGRGTPWFNYQAGR MCQTGEGLFIFQTRDGEAIYQK VHSAALAI/AEQHERLLQSVKN SMLQMKMSERAASLSTMVPLP RSAYWQHITRQHS TGQLYRLQ DVSSPLKLHRTETFPSSLQDS
18430	48798	C	18537	22	620	
18431	48799	A	18538	48	413	EDSKSKTISHPWRDCGDYCHH QGLERCGRGDSHHTPVQLS*LA CAED/NKSWRMT/GIIVSLTKC* LQMQLLYQMWFHCLSKLTHLL GISTLQLCVTLFREILITFPLHKI SHWSITLMTLR
18432	48800	A	18539	23	124	QWVIISLTKW*LQLQLLYQMWF FHCLSKLTRLPL
18433	48801	A	18540	1	1860	
18434	48802	A	18541	209	3816	QGRPTFRFRKYREHHKDTPRE QLQDT*SSDSPKLK*KKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFKINKIDRPQ ARLIKKREKNQIDTIKNDKGD ITTDPTIEQITIREYKHLANK LENLEEMDKFLDITYLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQMEKEGILPNSFYEASII LIPKPGRDITTKGNFRISPLMNI DAKIL
18435	48803	A	18542	1	1521	
18436	48804	B	18543	1	2265	
18437	48805	B	18544	1	1716	
18438	48806	A	18545	1	1704	
18439	48807	A	18546	1	3618	
18440	48808	A	18547	1	3087	

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18441	48809	A	18548	277	350	SPVEKELKLWKNRHKLLSC*W-LTC
18442	48810	A	18549	197	422	IVNKVVLPGGGPASP SLKGFVYKLAQVWVKLEGP*PFIFIQISL LSI*PRSFLV*IK*ECSRLPISFTS SGR
18443	48811	A	18550	1	3171	MVKGSIQEEELTILNIYAPNTG APRFIKQVLSLQRLDSDHTLI MGDFTNPLSTLDRSTROKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALISKCKRIEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKTEIKMFF ETNENKDJTYQNLWDAFKAVC RGFIALNAYKRKEERSKIDTL TSQLEKEKQEQRHSPSRREQ ITKMRAELKEIETQ
18444	48812	A	18551	209	2432	OGRPTFRFRKYREHHKDTPRE EQLQDT*SSDSPKLK*KKC*GQ PERKVKLPTKGSPPD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTEIQITIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRNPTGSEIEAITNSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFPQIEKEGILPNSFYEASII LIPKPRDITTKGNFRPISLMNI DAKILNKILANQIQQHKKLIHH DQVGFIQMGQWLEVLARA/IR QEKEIKGIQLGKEEVKLSLFD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSAFLYTNN RQTESQIMSELPFTIASRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTNKWKNI PCSWIGRINIVK MAILPKVIYTFNAIPIKLPMTFFT ELEKTTLKFIWKQKRSHIAKSIL SQKNKAGDITLPDFKLHYKATV TKTAWYWYQNRDIDQWNTTE PSEIMLHIYNHLIFDKPDKNKQ WGNDSL FNKWCWENWLAICR KKLDPFLTSYTKINSRWIKDL NVRPKTIKLEENLGNITQDIG MGKDFMSKTPKAVATKAKIDK WDVIKLKSFTAKETTRVNRQ PTEWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAAKRHMKKCSSS
18445	48813	A	18552	1	3255	

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18446	48814	A	18553	1	3139	
18447	48815	A	18554	1	3210	MVKGSIQEEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFSSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRKLNLTQNRSTTWKLNLL LNDYVWHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRQERSKIDTLTSQ LELEKQEQTHSKASRRQEITKIR AELKEIETQ
18448	48816	A	18555	1	3345	
18449	48817	B	18556	1	3127	
18450	48818	A	18557	1	3325	
18451	48819	A	18558	1	3145	
18452	48820	A	18559	1	548	
18453	48821	A	18560	1	3229	
18454	48822	A	18561	1	3352	
18455	48823	A	18562	1	1965	MGDFNTPLSTSDRSTRQKVNK DTQEMNSALHQADLIDYRTRH PKSTEYTFLSAPHHTYSKTDHIL GSKALLSKCKRTEITNLYSDH SAIKLELRKIKLTQNCSTTWKL NNLLLNLDYVWHNEMKAERKM FFETIENKDDTTYQNLWDAFKAV CRGKFIALNAHKRQERSKIDT LTSQLELEKQEKTHSKTIRRO EITKIRAELEKIEITQKTLQKINES RSWFFERINKIDRTLARLIKKKR EKNQIDRIKNDKGDITDDPTQIQ TTIREYYKHLANKPENLEEMD KFLDITYTLPRLNQEEVESLNRI SGSEIVAIINSLPIKSPGPDGFT AEFYQSYKKELVPLLLKLFQSI KEGILPNSFYEASILLPKRGRD TKKENFRPISLMNIDAKILNKIL AKRIQHIKLIHHDQVGFIPG MQGIKYLGLQTRDMKDLKE NYKQLLNEIKEDTNKWKNIPCS WVGRINIVKMAILP/KELEKTT KFIWNQKRACIAKSILSQKKA GGITLPDFKLYYKATVTKTARL YTKHGTSICCGSGFELLPMQKA KRELAHMAKAGARVKGLG HVTQHQLGSIEWFNKYSLSYY TVDTKPFQFSHPTKDNKTGLTCR NRTTVGVLDLQAKGNLVVVKHLS SLQHCYEFICHI

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18456	48824	A	18563	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNTQNRSTTWKLN LLLNDYWIHNEMKAEIKMFFET NENKDDTTYQNLWDAFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQE TKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18457	48825	A	18564	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTETITNYLSDH SAIKLELRIKNTQSRSTTWKLN NLLLNDYVWVHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKA VCR RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18458	48826	A	18565	1	3095	
18459	48827	A	18566	2	2678	

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18460	48828	A	18567	1	2478	MKAEIKMLFETKENKDDTTYQN LWDALKAVCRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ TLASKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDAINKDK GDITTDPTETIQTITREYYKHLA NKLLENLEEMDKFLDTYTLPRLN QEEVESLNRPIITGAEIVAINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIKEGILPNSFYE ASILIPKPGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDNHMIISIDAEK AFDKIQPFMLKTLKLAIEIKYL GIQLTKDVKDFFKENYKPLLKE IKEDTNKWNIPCSWVGRINIV KMAILP/KELEKTTLKFIIWQK RACIAKILSQKNKAGGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRKTETSEITPHIYNYPFD KPEKNKQWQKDSL FNKWCWE NWLALCRKLKLDPLTPYTKIN SRWIKDLNVRPKTIKLEENLGI TIRDIGMGKDFMSKTSTAMAT KAKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFATYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAXKH MKKCSSSLAIREMQIKTTMRYP LTPVRMAIIKKSGNRRTPTRPIQ
18461	48829	B	18568	1	3403	
18462	48830	A	18569	2	2976	APRFIKQVLSDLQRDLDSHTIIM GDFNPTLSTLDRSTRQKVHKDT QELNSALHQADLIDYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRIKKLTQNRSTTWKLNLL LLNDYVWHNEMKAEIRMFET NENKDDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKETQKTLQKINE'SR SWFFERINK
18463	48831	A	18570	472	829	AIASESPKAWQLPCGAQQF AALPGLGNYKFLTLITGYGSN KSPP*GYLVFQTYSSLP LLRLPP GHFGFLPLSQRLRRELQCWL G*LTQTIKMKSVYHSTTEVRKS MHGQIEIH

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18464	48832	B	18571	1	2293	
18465	48833	A	18572	1	3810	
18466	48834	B	18573	1	4107	
18467	48835	B	18574	87	3161	
18468	48836	A	18575	1	3192	
18469	48837	A	18576	1	1983	
18470	48838	A	18577	1	3156	
18471	48839	B	18578	1	3471	
18472	48840	B	18579	1	2337	
18473	48841	A	18580	1	3852	
18474	48842	A	18581	1	3057	
18475	48843	A	18582	1202	2004	SGIYMIGFEQVLKAQPLPSSPNG PMNKAIVATVVGMEVMHGLSNM DFHSRRLTWLRPLPGFTGPG/Y QGVKVEVAPLTIITPSDPLAKFL LLISATSTSLEVTVPGEMLPPR DTTKIATFGTGTGFLALQLADG LLWDLVIIPGKGKPSRDLVESPS PYSTYEGIDGWDFEPAPTATKP PVMPAPALPPDTRSGSKAPTVP TPYPQMEHHQVQLASNNNSNTE ALGHLSPQSSWVQTGPGQNSGP AIPNHLGKDMISPPQMAPAGVK WESQKY
18476	48844	A	18583	1	2832	
18477	48845	A	18584	1	3702	MQKKHDKIRNSFMIKTLKKLRT EGIYLNLIKATYKKPITNIILNGE NQKAFALRSGRFWILALCQM SRLRKLTNLYSDHSAIKLELRIK NPTQSRPTTWKLNLLNDYV VHNEMKAEIKMFFETNENKDT TYQNLWDAFKA VCRGKLIALN AHKRKQERSKIDLTLSQLKELE KQEQTHSKASRRQEITKIRAE KETETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDTI KNDKGDITTDPT
18478	48846	A	18585	1	3139	
18479	48847	A	18586	2	2918	
18480	48848	B	18587	1	3242	
18481	48849	A	18588	1	3640	
18482	48850	A	18589	371	522	
18483	48851	B	18590	1	3918	
18484	48852	A	18591	1	3057	

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18485	48853	A	18592	1	3233	MGKKQSRKTANSKKQSTSPPP KEIHSSSPATEQSWTENDFDLRL EEGFRRSNYSELREDIQTGKGE VENFEKNLEECITITNTEKCLK ELMELKAKAQELREECRSLRSR CNQLEERVSAEMEMNEMKRE GKFKREKRIKNEQSLQEIWDYV KRPNLRLTGVPESDGENGTKLE NTLQDIIQENFPNLARQANIQQ EIQRMPQRYSSRRATPRHIVRF TKVEMKEKMLRAAREKDRSTR QKVNKNTQELNSA
18486	48854	A	18593	965	4165	TSWKGTTSTRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEVTFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRKLNQSRSTT WKLNLLNDYVWHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRQKERS KIDTLTSQLEKEQEQTHSKA SRRQEITKIRAEKKEIETQKTLQ KINESRWFFERKINIDRPLARLI KKKREENQID
18487	48855	A	18594	1	5093	MEGEMNEMKREGKFREKRIKR NEQSLQEIWDYVKRPNRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIEIQRTPQRY SRRATPRHIVRFTKVEKKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDYRTLHLKST YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRKLNLTQNRSTTWKLNLLN DYVWHNEMKAEIKMFFETNEN KDTTYQNLWDTF
18488	48856	A	18595	1	131	
18489	48857	A	18596	5382	9269	RAKSPANIMTGSNSHITLTLN VNLGNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIG WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDKEGHCIVK GSIQEEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRSTRQKVNTDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCKRTEITNHLSDHSAIKLELRI KNLTQS
18490	48858	A	18597	1	312	

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18491	48859	A	18598	142	876	RKKGILPPKESLKELEEEAEEQ RILQQSVVKTYEDMTLEEEDH EDEFNEEDECAIEMCRQRLAE WKATKLKNKFGVELEISGKDY VQEVTKA/ERRALWVILHLYK QGIPLCAL/VNQHLSWTLPGSFP DVKFIKAISTTCIPNYTDRNLPT ILVYPGRRYQGLSLVLWCLAG MNPQEQMSWEWKLESGAIMT DLEENPKPIEDVLLVLSAALW SS*RGDSDEGDLRATASITCRT
18492	48860	A	18599	1	2310	LYNRRRRRCRSHCRHRCRLSS GLRKEEVISLGASLGRVFPVPCSP PTVSAARGPTGAPGGPNKPLCS GCCDDGFNLGRQQWGNPLPFC SKTISSSLHWTSQVNLVEILP AIFSSFLNLQHVNLWFLAAM KAVTEQGHELSNEERNLLSVA YKNVVGARRSSWRVSSIEQKT ERNEKKQMGKEYREKIEAEL QDICNDVLVRGQCFCFEQWFL NSINLMYKCRLSNYFRYLSVA SGDNKQSK*YL*KEIRPVMEPV FFHRDFTLILRLGLALNFSVFY YEILNSPEKACSLAKTVRKTL DI*P*QNSACVINFILFLNLRDN LTVSTTSTGFIVSFLFTYLIHCHY LQEGICTIKCSYSFKLLNLL
18493	48861	A	18600	3	1124	
18494	48862	A	18601	340	1323	AARPQKRHHNNHSSLLTGSHH WKRGRVQNIADVLQFCFLYLLT VLFVPCSPPTGMTMDKSELVQ KAKLAEQAERYDDMACSERH VTEQGHVLSNEEKSCSLVAY KINVIVGARRFLPGRVSSI*A*K QRRNEKKAADGQKSTREKIEG RTCRTFCN*CFWELLGQISLFPN ATQPRKVKVFYFEK*KGDYF/R YLF*KWQS*RQQTQPTCVGTSP ARAYPGSNLKI*LRKKMQP/TH PNSVLVLAPKFPQSFYIEILNSP VEKGLVSLGKNGHFD*SNLLNL DTLEWKSLLIKDSTSDSWQLLR DNLLTLWDIRKTRGDEGDAGEG
18495	48863	A	18602	33	89	
18496	48864	B	18603	167	232	

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18497	48865	A	18604	14	600	MAELAPASPSDIKASVNSGDTT LLCSRRQSCGMNEVRQVSLTY GSPAPSHSLPLQPRSGGSLCPS AW/PDPHQLFDDTSSAQSRGYG AQRAPGGLSYPAASPTPHAAFL ADPVSNMAMAYGSSLAQGGK ELVDKNVSGRGWWEWGDAARG HRASDLSSASPD\HRFIPITKLKY YFAVDITMYVGRKLGLFFPYL
18498	48866	B	18605	1	1230	
18499	48867	B	18606	41	931	
18500	48868	A	18607	3	166	PRPFKSRLLPGIIGGEYD\QRPN PILPGRGGFNDRFPPRPSGRGP TDGRLSFM
18501	48869	A	18608	212	1881	CLRVLLKRTWPVEVPETGARF /TGGILRSH\LRQSLTCTWGYSS NTRFTITLNYKDP\TGDEETLAS YGIVSGDLICLILQDDIPAPNIPS STDSEHS\SLQNEQPSLATSSN QTSMQDEQPSDSFQQAQSG VWDDSLMLG\PSQNFEEISQD NAHMAEGTGFYPSRTPCSW*L NPVEGQVPHISLETLYQLADCS DANDALIV\IHLMLLESYIPQ GT\EAALSMPEK\WKL\SGVYK LQYMHPLCEG\SSVT\LTVCPLG WNLVIVNATLKINNEVRKC*KGC SLLPESF\ICKEKLGENVANIYK DLQKLSRLFKDQLAHPLLAFT QAL\NLDPDVFLV\PLELKLRI FRLLDVRVSLSL\AVCRDLFTA SNDPLLWRVYICVNFDRNTV RVQ\DTDWERTVQGRRAHTKE KESPKGRVLWMLAIRQTH\TIP FYSQPLWHPRGHFPKLPAPFPGI YSGGWNMDQR\PTFPYVGRTO SSSLNSWVLGETPKPSFLRPR FDPVWPHFPGP*PPSLPRARAGP NDQISPRFPQGSQGLIGRLSIH
18502	48870	A	18609	1	1065	
18503	48871	A	18610	1	1513	
18504	48872	A	18611	1	2247	
18505	48873	A	18612	3	421	
18506	48874	A	18613	1	103	
18507	48875	A	18614	3	435	
18508	48876	A	18615	268	501	QLECIPTGWELWKEQERAMA GGGLKKIISATEKKLARMLLAP SASWCCSGP*VFHGST*WGKPG PVSVSLLGQVLGK

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18509	48877	A	18616	3	296	EAMEAVILTCDPATPAASYQW WMNGQSLPMTHRLQLSKTNRT LFIFGVTKYIAGPYECEIRNPS*V PAASDPVTLESPPLLFNGLATIE TLRKRGNP
18510	48878	A	18617	3	1464	GAVRTWGRGFQTEKQASLLN FWNPPTAQVTIEAEPKVKSG KDVLLLVHNLQNLAGYIWK GQMKDLYHYITSYVVDGQIIY GPAYSGRETVYSNASLLIQNVT REDAGSYTLHIVKRGDGTRGET GHFTFTLYLIPWTLTYL*RS LQVSHYETPGKTAPPCGSTA**L N*PPDLTFLSPVLFLKYPVPGQ AFQYPKGLKTIGSSITHL*DV LKGSCRENIPRAAK*D*N*EDS STACSK*GPQVETPKPSISSNLY PREDMEAVSLTCDPETPDASYL WWWNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKPY I TINNLNPRENKDVLAFTEPKS ENVTYIWWLNGQSLPGSVPR VKRPNENRVLIFTPCSRGIETG P YIQCEINRDYGGHPQLPSHPGM SSITTKHSGLYACSVRNSATGM ESSKSMTVKVSPAGSGTHLPGL
18511	48879	A	18618	79	1516	
18512	48880	B	18619	96	1730	
18513	48881	A	18620	9854	11033	ESLCFPKTEQASQSLSP*IIHLS CDTCTSYWLSRTHVG*QVGDA NSE*RMPEESKVPHTIFCYPH SVKLPMPYITINNLNPREKKDVL AFTCEPKSRNYTYIWWLNGQS LPVSPRVKRPMENRILIPSVTRN ETGPYQCEIRDYGGIRSNPVT NLVCEYPLFLCGPHQLNSKRP EARPLSLSPVQV*TTLLEDIRPG HDSLPEILGRHSLNQEYKGRG ALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHLRCLGSEG HCVPLRDQEHPLPDDITCGFIL FPPDGPDLPRIPSFYTYRSGEN LDLSCFADSNPPAEYSWTINGK FQLSGQKLFIPTTNHSGLYAC SVRNSATGKEISKSMIVKVS GK WIPASLAIGF

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18514	48882	A	18621	3	1350	GRTAQLTAVLRKLLDPRLISTE ENTQAAETMGPLSAPPCTHLIT WKGVLLTASLLNFWNPPTTAQ VTIEAQPPKVSEKGDVLLLVHN LPQNLAGYIWKQGMTYVYH YITSYVVDGQRIIYGPAYSGRER VYSNASLLIQNVTDAGSYTL HIIKRRDGTGGVTGHFTFTLHL ETPKPSISSNLPREAMEAVIL TCDPATPAASYQWWMNGQSLP MTHRLQLSKTNRTLFIFGVTKY IAGPYECEIRNPVSASRSDPVT NLLPKLSKPYITINNLPRENKD VLTFTCEPKSENYTYIWWLNG QSLPVSPIVWKPIENRILILPNV TRNETGPYQCEIRDYGGIRSD PVTNLNLYGPDLPISYPSFTYYR SGENLYLSCFAESNPRAQYSWT INGKFQLSGQKLSIPQITTKHSG LYACSVRNSATGKESSKSITVK
18515	48883	A	18622	273	2271	CGSWLMTQFSMDKRGQRSSV TITNTAVTSLEWVPFHAFAPRS TLVSQQGATSHDNTQEMDSP GQEPGFAKEVEVEPGFQPLPQM TLLVPAMCLLLHGACSAKGFC AAPHFLLASPMGKGQVLPNFS FTLSEELDLPQSLKRNPKGCIA RAKPILAAERHKRLILHTSKEN TLLDNRVIECLTMEAVAKFNIM KEREFGSHQALSPPKARWHIL WQKLMFTASLLTFWEPPTTAR VTTEAMPFNATEEEEEFFLLA HNLQPNLRTATWYKQGMHRH LYHYITSYVVDGEIHYGPAVSG RETAYSNASLLIQNVITREDAG SYTLHIIKRGDGTGGVTGRFTF TLYLETPKPSISSNFPREATE AVILTCDPETPDASYLWWMNG QSLPMTHSLQLSKANRTLYLF GVTNYTAGPYECEIRNPVSAS RSDPVTNLNLLPKLPKYITINN LKPRNE*GCLRPPTCEPKE*GTT PYIWWVKRFRSLPSPGVKRP LKNRNLIPTPVTRKWQGPYS MWNYGDRYGGIRSLPSSPWNV LLWVQDLPRILPHFTYYRSGR KSSYLSGSGGTLNPPAQYSWD N*WKSQFLTRGQKLFYSGHITT KHSGLYVCISVRNSATGRESSK SMTVEVSDWDITLNSTSTNSIF
18516	48884	A	18623	1	1131	

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18517	48885	A	18624	1	603	MDIADPFSGFPMGMGGFTNMN FGRSRPAQEPTRKKQDPPVTHD LRVSLLEIYSGCTKKMYQED/KI SHKRLNPDGKSIRNEDKILTIEV KKGISLPEALCG/TTVNVPTLDG RTIPVVFKDAIRPGMRKKVRGE GLPLPKTPEKRGDLIIIELEVFPE RIPQTSRTILEQILSSYLSYLSSP GLTRDLRAQGLDLSTSCGP
18518	48886	A	18625	3	1228	WSAAEPVDGDSGAGRRRGW PKTTYHPWAVARGASEKEIKR AYRRQALRSHDPKNKEPGAEE KFKEIAEAYEVLDPKREIFD HYREEALKGSGPSGG/SGGGAN ATSFSYTFHGEPLAMFAEFFGG RNPFDTFPGQRNGEEMDIDD PFGSGFPMG/LWGGFTNVN/GRS RSAQEPARKK/QDSPVTHDLRV SLEGDLTAAPVRRCTKKMKISH KRL/NTPDGKSIRNGDKILTIRSE RRGWKEGTQITFP/KEGDQTSN N/PADI/VFVLKDKPHINIFKRDG SDVIYPARISLREA/LCVGCTV NCPHSGTGRTPVVFKECYQGL GMRKSSWENGLPLPQNTREN VGDLII*GFEVIFPERIPQ/TSRT VLEAGSFQYSYLEVPQGLTRGP FPFLKDFWDLFLPVVGP
18519	48887	A	18626	321	1121	GDVPSAPRRPSRRTPGCGSRG ALQPGPPRA/PPPEP/PPRGAAA AAPPAGPAAPAAQPPRRPPAQ PRSCPRRVRPPTA/WSPGRRGP RRSRRRPFGPGPAAPLRLSRA HSPAPPGSPYRPHGAGTSVAP WTRPPAARGTEADPGRCVPSAP GTAPGQMRGRGSATQRLHRGH STAPGAGGRCGRRPGGSGRPG AGAGPRRSTAAPPCCRRRSPTG PRSPRGPRSARPARGSVGGPRG TPGKQPGPRA*TSGPPEPRCCG HARG
18520	48888	A	18628	191	653	KLEIQRLRLMTTECIRHTKQKK FGSPGLQPPLPGNAKSRADSTA LPALPAQKQKTKQEPGESS*E PGGSSPSRMERAEAPASQ/PA GGTGQGWGAPHLGPALARR VTGPPQHGSPGPRTRPTYPAR C/PSRPIFVPAIVWSRLRAPGLP
18521	48889	A	18629	141	319	

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18522	48890	A	18630	178	722	PLGNVSCSHRSFQATARVDYSLI YVLAWGQKKEVWELRNWQTH ALMKLKNKLREPRTSVNKD/SP KSLLYSCSYSYFDEPVELRSSSF SSWDDSSDSEYETHLLHLKLV* PNLAVFNCRPTARRKPDYEPVE NTDEAQNSFCCTAHNLWSLTFP FPCLL*YETRARLESWSLSCLR YEHISSG
18523	48891	A	18631	2	367	
18524	48892	A	18632	1	381	QRYSSRRATPRHIVRFTKVERK ETMLRAAREKGRVTHKGKPIR LTVDLLAETLQARREWGPIFNI LNEKNFQPRISYPAKLSFISEGEI \NPQMLR/DFVTTTRPTLRDLLKE ALNMERNRNYLPGRPL
18525	48893	B	18633	1	846	
18526	48894	A	18634	3	1170	VGSMTGEASGNLQSQRKAKRK EARLTCLEPVEEPGSGTHPPMC YLAPPMWKQKQKQKPEIKEGDR DHNSLPAREENQTENESDELTE AGFRRWVITNSSRLKEHVVTQC KEAKNFEKSLKELLTRITSLLEDN INYLMEPRNTAREHREAYSSIN SQIDQAEKKEIPEIEDQHNEIKRE DKIREKRMKRNKQSLQEIWVY VKRPNLSLAGVPESDEENGIKL KNTLQDIIQENFNLAKQANIQI QEIQRTPQRYSRLRATPRHIVR FTK VEMKEK\MLRAAREKGRV THKGKPIRLTADLSAETLQAR/ RTEWGPFIKILKEKNFQPRISYP AKLSFISEGEIKYFTDKQMLRD FVTTTRPALKRAPGKEGT*TL RDNRYQPLQKHAKL

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18527	48895	A	18635	73	1504	QDLRLFLYKLDTFMSKLAHLQR FAVLSRGVHSSVASATSVAATKK TVQQPPTSDDIFEREYKYGAHN YHPLPVALAERKGILLMGM*E GRKYFDFLSSYSALSNQGVHC HPKIVKCSGRVKWDKIDL*HLE AFYNNGTLVNMRYY*TFST YHKVLPMNTGVEAGETA\CKL AIRKWGL/YTVKGIQKY\AKIV FAAGNFWGRTL\SAISSSTDPTS YDGFQPFYARDFDIIPY**SCPH MEQCSFKDPKGLAFHG*EPIQ G\EAQVVPDPG\YLMGSAESS GTRDQVLFCLEIQTGLARTW *DGLAVDYENVRPDI\LLGKAL SGGLYPVSAVLCDDIMLTIKP GEHGSTYGGNPLGCRVAIAAL EV\LEENLAENADKLGILLRNE LMKLTLP/SM\VTARKKEGIY LNAHLAIKGNQKIWDA/WGKV CLRLQDNGLLPKPTS\VALTSRF APP\LVKEDELRESIEIINKTILS
18528	48896	A	18636	2	348	
18529	48897	A	18637	588	801	RTAYFCQYHTASVYSERAMP GCPEPSQA*ELQETGHRQVALR RSGRPPKCAERPGAADTGAHCT STDGRL
18530	48898	A	18638	175	510	NSESPGPLWWLSCDNP\AKDRIY STEADGLGLPDQSFVVHRAQL* CVAG*LGTHSRFQEWAV*D*SD LLKAQLHFKVGRGVWEAGGGL EWVLGGRCRCRVPQPLETLIQ WGPW
18531	48899	A	18640	1	1431	
18532	48900	A	18641	202	994	RWQQQRLLDSNIRLVVVLPIR YSFTFFRRALIRHY\SILL\AERQ RSFTQGNKYLDSSSPNFEGRV/R FRGKLGNYIPKQSF\RG/RRKFLF FPNPEDGIFS\KLLKREVPPSPM TDP\TMLTDMMKGNVT\NVLPM ILIGGWINMTFSGFVTTKV\PFPL VTLRF*A*WLQQGNRSYSPFRCI PG*/WFCIPGYFPQCILGFRSI/YT LWISGGKDN\GRV\NQSRRM/DR SRMTGASHGPWPADSGRRFPN KRWEAL\ELTDHQWALDAAGE DAA
18533	48901	A	18642	97	224	LPTKSTWVAGKK*KKRSNIKD YSTPLTSYRSIRSHAFKIVAS

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18534	48902	A	18643	117	457	IWGDVEKGKVKVFL*RC SQCH TV*/ERGGKHKTGPKSP*VSFGR RTGQAPWDTLYTAANK\NKGII WG\EDTLM\EYLENPKKVHPLD TKMIFVRHLRKRERADLI\ALS SKKLLN
18535	48903	A	18644	411	1054	VTGAQRLVTCRMGKQNSK\LA P\EVMED\LVKSTEFNEHELKQ WYKGFLKDCPSGRNLNEEFQQ LYVKFFPYGRRLP\SAQHA\FPN LSTRMGDGT\IDREFICAL\ITS RGSFEQK\N\W\AFNMVYGPW VMGKITRVEM\LEIHRGLSYQN G*GTVIMMKMNEDGLTP\EQRV GQDFSARWVRNKDDQIYTGID FKGSCQRADPFIV*LL\QCDIHK
18536	48904	A	18645	3	475	GAEGARGGSSYSEMAETVAD TRRLITKPNLNDAYGPPSNFL EIDTNLP\IFKLKESTVRRRYSDF EWLRELERESKVVVPLPGKA FLRQLPFRGDDGIFDDNFIEGKK TRGWEQFINK/VSLGHPL\AQNE PLFFHMF\QDEIIDKSYTPSKIR
18537	48905	A	18646	1	695	LRARSLRDRCARAPCPHGGQQ RRRRRRLNAEGAEGARGGSSY SEMAETVADTRRLITKPNLND AYGPSPN\LEIDVSNPQTGVGV RGRFTTYEIRVKTNLPCFQ*KN LIVRR\RYSDFEWLAKWNLERE SK\VVVPLPG\KAFLRQLP\RG DDGNILMDNFI*EERKIRGWSS FLNKVA\GHPL\AQN\ERC\LHM VFYQDEIIDKLLLP\SKNKAMP WKFGPRKGAKNVDY
18538	48906	C	18647	3	474	

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18539	48907	A	18648	156	1254	RPLHTLEVLRMRTRKRLVTKAA ASAARAQPAEPRDRKYDKHLS YLATWGRSAGRAGSPRGARGR ELARAPVSLPAGVPGRGSAA HSSEARTGPNKMGSSREPPT EKVPCPRGLSPTRVGHQVHGT LGAGPNELHPSGAPAGRCRPG REAKLGDAARSEASAHKFHII DSLSPWNPTAMEMLMPKKNR IAIYELLFKEGVMPVKIDVPI PKHPELAEQKCAPTFHVMKIA MQSLKSPRPT*KEQFAWRHFY WYLTNEGQYLRDYLHLPPPI VPAHPYGRSPRRLARPRPKV WKGEATLRDFTRGEADSLCH S/DSYRRSAVPPGA/DKKAEG GLGQKPNFQFRGGFVRGRGQP
18540	48908	B	18649	1	1053	
18541	48909	A	18650	1	529	MGRYMEREPQGNHRRSGLSG ERCSHMGGLIERRELQETETK EGVVEWCWLEKVLATITKPV RGDKNGGTQVVKHRKMPRY PTEDVPQKLLSHG/KKPSQHM RKL/FLYRRHARNLSLPPQELII SDVK/IPRHPADA*LEEQLSEP E/HSEGSTY*RIPEKVLSPAIRP
18542	48910	B	18651	258	363	
18543	48911	A	18652	197	398	ARMSQEKDFHKVMSALKARTG HLHFFCGGMSSVKVGGFSLLL *FFSYFRPSGCILPL*ELPEARCP
18544	48912	A	18653	215	932	GTQSCNQKVLNANLQELGIG PKFQMRKLPQAPMQPNRGTS LGRSIPCPVLCMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP*VASPLF*RSKYPNLVSL CPSPLFPRPDLLSLWPNPLFRTPT TSYISVPQSLISMPLRPLISAPQPLI STTQPLSRFSGRSLLQVPEIWPP GQGMPAARDSS
18545	48913	A	18654	1	378	
18546	48914	A	18655	14	380	
18547	48915	C	18656	228	260	
18548	48916	C	18657	99	335	
18549	48917	A	18658	55	474	RQVPLFWGRGKYPNPFSLCLYP FSAFLGGKKHPTSPSP*VASPL F*RSKYPNLVSLCPSPLFPRPDL LSLWPNPLFRTPTSYISVPQSLI SMRPLISAPQPLISTTQPLSRFS GRSLLQVPEIWPPGQGMPAAR

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18550	48918	A	18659	1	187	AELATGNVKEASGTPEEKAGSVLG*ACFAGP*ERCCWQNN*DGIISIQSYCLCNLGCFTQ
18551	48919	C	18660	1	357	
18552	48920	A	18661	3	148	
18553	48921	A	18662	1	312	
18554	48922	A	18663	149	457	
18555	48923	B	18664	1	675	
18556	48924	C	18665	110	928	
18557	48925	A	18666	495	817	LTSRSTRIIEKSCSSLPPL*DKPQPHLQHTRTSKRLNCSSQVFLQNLPEELATSSRNLATGPRNACSPGFLLSHIPVWDPTGNRTVQLTWQPLPELELWPKAL
18558	48926	A	18667	228	3021	VFDRTQNVQGRIMEAPEYLDLDEIDFSDDISYSVTSKLTPELCRCDITQNEADRSVSSSSWNCIGISTLITNTQKPTGIADVYSKFRPEKRVLPKIHQPETLENNESDDQKNQIVGEYQKGGESDLGPQPQELGPGDGVGGPPGKSSEPSLSLGELEHYDLMDLELDVPIYKSSQQLASFTKVTSEKRILGLCTTINGLSGKACSTGSSSSSSNMAPPFCVLSPVKSPHLRKASAVIHDQHKLSTEETEISPL
18559	48927	A	18668	1440	1764	ERSTYNLRSSDQP/RPRNLTNFKS/VDKGDTFYPPWTHNSGASHGLGR/RLPWC*ELATSARNLTPRPRTAGSPGFLLSHVPSVWDPTANRTVQLTWQPLPELELWPK
18560	48928	A	18669	1	3255	MLTLTGAGGESWIIRPGNLLLEQLGAETLGRREQPGDEVTAHFLQGVINMGVPVYPGAHSSNMPGVSVPILGHSVKLFEEYYPVGDPLMGSGRPHTPRKKIWSDLNASHDLYLALDWTPLPEQSEPGPLAAWKPFQAEETYCKCAEGNE NTPFDLRKGTLPCCRNLERARQAYMHIEEKFPFELTEQHICEFQSMCYVLVRVLGACQSQTWILEPDGVSGPSKGASEAIGQCQSSAAKPRRSKGESVREPWA

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18561	48929	A	18670	1	1442	CSEYEDSSPAPVPATDLSSTLSS SVPQPDGTGTSQQLHPLDPWHE LLRAQELQGATNHHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSAFAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKTRTL QKRKKGMPHPA/S*GPKHSCH HSPCQCPSSAK/SASELQGSWT PFGGLLTRTRMKFGAKTRDL QGTSLGRSLPCPPTLCSMRKIHL RPQVL RPTS PRNISPISNPRQR QVLSMDPKLRHRSRTGK/DSL LVFNHCRDTSIIHPCFKGVPR RDACLGPSPLAASPAFLEKGGD LINLAFKVYNNRKKLQFLASTV RQTAATSPAHNKFNQPEPQRP GVPEPPPTGACYMCRKIWPLG QANARSPGFLSRVPSVRDPTG NRTVQLTWQPLPEALELWPKA
18562	48930	A	18671	140	327	
18563	48931	A	18672	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
18564	48932	A	18673	218	674	MPISRPTARFKRIKVYYHSPAT AWFSKAYKLPLQFPHTCPKTR QGLQVTSGSAPYQPNCFVYPPR VAKTKYSPILNTSLHNPLLCSGS QTCFLY/SFLCTFHPSLSLSLGL TLTPIRLSKLRGLYCHKASQTA PITSIKPKFLPHLLPISA
18565	48933	A	18674	1	268	
18566	48934	A	18675	1	458	
18567	48935	A	18676	3	461	LLLTQSLFGLFTRTRMKFGAV TRIGGPPLGNQSPSSCSLLHEKD PPTSGPQTDQPKKHLTNFKSA ARPTFLGQGVPLNPFSTLS/E QVLLS*AARTPQSLISTPQLISV PQSLISVPQPLLYFSGGQEP PPP LLCVSSLSFRLASFTM
18568	48936	C	18677	156	329	
18569	48937	A	18678	449	667	
18570	48938	A	18679	79	311	

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18571	48939	A	18680	1	693	MAPTNCKGSRKCGRPHEQMPPH PYLPPLTLFSDSARLHPGEINSR VPHTKPVWWSLHTDAYEIWYH DSDWGDLPWEINPLSSCSLLHE KDPPTTSGPQINQPKHELMNFK SGPHWKSDCPTRQPLPGLELW PKA/HLTDSFPDLLSLAAED*CC LIALEAPWITDAELWITLTVED SQLYEDTLAGRSVLIKNLTP*TL Q/PLDGLDPT*SSIVPQLPSACRI LPTGFTVPE
18572	48940	A	18681	328	865	
18573	48941	A	18682	451	1238	TALLTQSLFGGLFTQTRMKFG AVTRIGGPPLEGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLSLACYSMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPQSLILFWISNVLSLLF LCTLHPSLSLGLTLTPRLS KLPLGYCRKASQTAPITSVKPK FLPYLLPISA
18574	48942	C	18683	870	1037	
18575	48943	A	18684	933	4323	AASHLCGTPLEIGLSNSPGSHSQ SPWNSGPRLSDCFPDLLG*VAE D*HCPIASEASWTVTIELWVTLT VEVAATALLILEALKITSYAPLT LYSSHNFQNLFSSSHLLT/PYTFC PQ/GPFSYTHSLLSPQSPLLLA QTSIRPPTLFLPHLTPMTVSL*/ ILTFIFPHISFFPVPHDHTWFD GSSTRPNRHTPAKAGYAIVSST FIIEATALPPSTTSQQAKLIALTQ ALTAKGLLVNIYTD SKYAFHI
18576	48944	A	18685	849	1944	WQVPLFSGRGKYPNPFSCLYP FSAFPGKRQELATSARNLSDHQ AKECLQPRIPPKPCPIFAGPHWK SDCSTSPGQPLPELELWPKA/H LTDSFPDLLGLAAIED*HCPIAS EAPETITDAELPVTLTVEGKSIP CLIDTGATHSTLPSFQGPVSLAP ITVVGIDGQASKPLKTPPLWCQ LGQHSFMHSFLVIPTCPLPLGR NILTKLSASLTIPGVQLHLIAAL LPNPKPPLCPLTSPQYHPLPQDL

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18577	48945	A	18686	2	377	KGATIVYALDTLFIMEMKHEFE EAKSWVEENLDFNVNAEISVFE VNIRFVGGLLSAYYLSGEEIFRK KAVELGVKLLPAFHTPSGIPWA LLNMKSGIGRNWAWASGGSSI LAFTGLHLLEFMHL
18578	48946	A	18687	215	1135	PITLRRHLFFSGIGRNWPWASG GSSILAFTGLHGMKIVF*/HFFH GNILFSIKVMNIRTVLNKLEKH YLN*KLHNSKIHFPLPDHVS GGGDSFYEYLLKAWLSINLRR DYKMLKNKCFSQAIETHLRKS SSGLTYIAEWKGGLEHKGMGH LTCFAGGMFALGADAPEGMA QHYPVSTVQENNPYSFPCPLV MKLGPEAFRFDGGVEAJATRO NEKYIILRPEVMETMYMFRL SGSDFSSFLLLPPQASSCFQTLF DLFKVPDLSLILEFRRHSSRQP YSTDQPFYLVGKRILFCPLT
18579	48947	C	18688	304	400	
18580	48948	A	18689	16	450	
18581	48949	A	18690	1	777	GHSMDMRVPAQLLGLLLWLP GARCVIWMQSPGTLSPGER ATLSCRASQRVNSNYLAWYQQ KPGKTPKLLIYGASNLETGVPS RFSGSGSGTDFTITISLQSEDA MYCYCQYNNWPHPS/TFGQGT KLEIKRTVAAPSVVHLPGPSD EQLKIWELPSACVPA*NNFYPO SRPKVQWEGGITPLQ/SG*LPQE SVHRGRTRQGTAPYSPQAPW TVRQSRJTEETQSLTACEV/TPS GALRFRPVHKGAFNRGESF
18582	48950	A	18691	3	688	HASADAWAANAEEHRHDP GTLREYKVVGRCPLPTPK/CHT PPLLPACEIFAPNHVVAKS/RAF WYFVSQKIKMKKVQGGKIGL LVGQVF*ESSPLR/V*KNFRGSW LAAMDSRERAPTNMLPGNNRG P*PPAGGCSTQLLTRDNGVAPG TGAPKPHFHFRIERLEGRFAG QQSCRRP/ALVQSSFDKIKFP ACPNGVLRRQHKPRF/ITKRPN TFFLGAGPSSGVCPK
18583	48951	A	18692	1	784	

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18584	48952	A	18693	1	4713	MQGPYLLWLPDSLEEGKEGL YLGNCIHTCLTVVPEDAFFPHF LTQHSGLTHLPSSDIPSHFMNNS TGRLAQRILGTSTEAFLSPEVM VFVHARNATVRTAMSLIERAK NCGHIPFFFTQGHYVLAKEQ VQRSRNKQVRELFPDGFSIHHA GMLRQDRNLVENLFSNGHIK V LVCTATLA WGVNLPAAHVIK G TQIYAAKRGSFVDLGILDVMQI FGRAGRPFQDFKFGEGIIITTHDK LSHYLTLLTQRNP!
18585	48953	A	18694	313	489	SSCFKLHFQQLFKNCNTQMRN QIGFLRF*NNLVMLSSSSVTNQ LELQKKIILLTKMQ
18586	48954	A	18695	1	851	ACGWALAQRPARRAMVAGID AGRSILGVLVSVCLLHCFGISC FSQQIYGVVYGNVTFHVPSNV P LKEVLWKKQKDKVAELENSEF RAFSSFKNRVYLDTVSR*PSLST T*TSSR*KMKYEMESAKIVTDIT MKFLPYV*VSFQSPTLTICALT NGSIEVQCMPEHYNSHRGLIM YSWDCPIMEQCKRNSTSIYFK MENDLPQKIQICLSNP/LFNTT SSIILTTICPSSGHSRHR YALIP LAVIPTCIVLYMEWVF*KCARN PDRTLQLIGNRRMKTTA
18587	48955	C	18696	35	181	
18588	48956	A	18697	75	344	PQVLRPTSPRNISPILNRVSDHA GTPALVLHP*RVQVPLFWGRGK YPNPPLYLCAPIPYFRT/HNLISLR PNLPCHPDLVSLCPDPFPAFLE
18589	48957	A	18698	1	268	
18590	48958	A	18699	39	376	QYISELQFLASTVRQTPATSPA H KNFQTPEPQQGPPEPPPPGAC YKCWKSGHQAKECLQGPGRK PRPISGSHSQSPLELWPKA/HLT DSFPDLLGLAAED*HCPIASEAL
18591	48959	A	18700	2	295	CQTTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RVQVPLF WGRGNHISGTQELPNT*TAV/V QAF/LPEPPPTG/CLLHVPEIWPL GQGMPAQDSS
18592	48960	A	18701	81	402	VKFGPEIWCRRSDQGRGGVGT SLGRSIPCPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPLELWPKA/HLTDSFP DLLGLAAEDRCCPIASEAP

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18593	48961	A	18702	165	439	PPRQAKMQNLAAPGSHSQSPW/TLRPKAL*LTSPQIFSA*RLKTD TARSPRKPPSFQGPVSLASITVV GIDGQASKPLKTPQLWCQLRQ YSFK
18594	48962	A	18703	284	511	IILVVKWANGRLCLTSRHSFTH QSLPS/PLCPVQLVFN/SRLSPQS QPQASLSLSNLPFLQTHLTSFPL PRLLLARPK
18595	48963	C	18704	414	557	
18596	48964	A	18705	1	1284	MNFEGTETLHCNGHCKVIAMT LGNQEVDNRNFSTGTTGPMEG MWLLSSNSHHSLKYAGALAILS AFQYQERGSQAGHRDSWPETK ETHFICGPKTPALVTDWEGSLP L VFNHCRDASLIHPRFSGVRPR RDACLGPSPLAATPQTITDTTEL WVTLTVEVWDIST/LFPGN*SH A/TLPSH*NLITLTP/NAN/AIPQ HALKGLKPVITRLLQHGLLKPI NSPYNPILPVQKLDKSYRLVQ NLRLINKIVSPHPVVPNPAPFAS QITQAVSQALGIQWNLHIPYHP QSSGKVERTNGLLKVHLTKLSL QLKKDWTVLLPALLRIRACPR DATGYSRFELLYGRTFLLPNLI PDTSPLGDYLPVLQQAQAAAN LLLPTPDQPHEDTLAGRSVLV KNLTPTQTLQPRWTGPHFIYSTP TAVCLQDPPH
18597	48965	B	18706	1	933	
18598	48966	A	18707	3	435	TKETGFHIGPKTPAPVTDWEGS LPLVFNHCRDTSIIHPCFKGVR PRRDACLGPSPLAASPAFLKQ QDLINLAFKVYNNRKKLQFLAS TVRQTAATSPAHKNFQMPPEQ RGVVPEPPPTG/CLLHVPEIWP LGQGMPAARDSS
18599	48967	A	18708	2	111	
18600	48968	B	18709	1	595	
18601	48969	C	18710	1	1344	
18602	48970	A	18711	227	385	VPILPQPLLLHPAIFLSPPLTPG PAYSFVP*LALPHLPSNLLKR WLEPKA
18603	48971	C	18712	148	258	
18604	48972	A	18713	215	693	
18605	48973	C	18714	1	816	
18606	48974	B	18715	1	513	
18607	48975	B	18716	1	1452	
18608	48976	A	18717	1137	1303	

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18609	48977	A	18718	2	2107	IDMIFTGPPSTPKHKKSQKGS AFTFPSSQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSDLKTIICNYSETGPPPEPYSF HQTVIDKVSYPYGFHAHPVNL RGGPSSGKVQATPPSATTYVE RPTVLPLTLDSRVSCSHQADL QGPYSDRISPRQRSITRSDTP LSLMSVNHHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFSLRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFLSLVSYS SFAFHKFSVAVYNISNLKTVD AKFPTRYCYCLNNRTNDLSDF ALLVDHGNSTSYLTFIKSTSL SVNQSNESDCIFCYMTGKSGR NLSDFWEIEEKYPIINYFTTSG SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPTTSGPQTQDPKKHLT NFKSAARPTFLGQGQVPLNPF FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEP PPPPLLCVSSLFSLASFTM GAFTHGTQTPTKATAPRYPQ TGDLSAEWPF TAGEEPVLVPRP
18610	48978	A	18719	828	1063	RHSQAAED*HCPALE/VPQTID AELRVTLTVEGYSLPPGCLRGL MLSVSGFSRSTVQAVSGSTVLG SGGQWFSCASV

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18611	48979	A	18720	183	1140	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHILTNFKSG ETKEMHFIRGPKTPVPVTDWEG SLLLVFNHCRDGLSDHSATFQG CQT/MAGMPALVLHP*RVVPLF WGRSKLLLARLS*VPILPQPLLL HPIILLSPPLLTPGPAYSFV*LS MSIHQVVLRPDEQGPGEQEQPP LYVMEPGEINSFIAHTKPVWWS LHTDAHEIWCHDSRGTSLGRS IPCPALCSVRNIRLPQVLRPTS PRNISPILNQERQRRCLFVDPK LRCQSRGTGKAAFS WCLIIAGTA SLIIQPHFKGVRPCRDACLGSPS LAASPAFLGKEQAAPCQALGPG NSSASAPPPYNPFITSPHTRSG LQFRSVTSPPPAQQTLLKKVA GAKDIVKASLAPALAQGVPGTP QATASEGASLKSWECLCGVNL ATAQSARVKEACQEACQSLPRF QRMYEKA WVPKQKTAEVELS QRASTRVVLRGNVGLSPSRVF SIALSSGAVGGVHCPSDHRMIE PAAFNL SMKNPQRQSCSLRA
18612	48980	A	18721	372	906	LRSA DLPWEINPLSSCSLLHEKD PPTSSGPOTDQPKHILTNFKSE KKETRIFIRGPKTPAPVMD*GRQ PSLGV*PLQGCLSDYSRPFQRC QTTQGHLPWSFTLSSKSHFSGG RGKSLQVPEIWPPGQGM PAA QDSS*AVPICAGPRWKSDCPH LAATPKAPGTLAQSLTPSQIFL
18613	48981	A	18722	983	1980	KFGLVQLTLGKPLPELELRPK A/HLTDSFPDLLGLAAED*HCPI ASEAA*TTDTLRLVTLVEVW DIST/LFPGN*SHA/TLPSH*NLIT LTPLNANI/AIPQHALKGLKPVIT RLQHGHLKPINSPYNPILPVQ KLDKSYRLVQNLRLINKIVSPIH PVPVNPAPFTSQITQAVSQALGI QWNLHIPYHPQSSGKVERTNGL LKVHLTKLSLQKKDWTVLLP LALLRIRACPRDATGYSRFELL YGRTFLLGPNLIPDTSPLGDYLP VLQARQAANLLPTPDPQPHE DTLAGRSVLVKNLTPQLQPR WTGPHFIYSTPTAVCLQDPPH
18614	48982	B	18723	1	271	

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18615	48983	A	18724	803	1158	CSWHDRFPDWKAGNLLSLAA* D*HCPAIEAP*TITDAELQVTL TVEGSGDLPWEINPPSSYTLCE KDPPTTSGPQTNPQPKHSHQFQ IRDKGDTFFYPWTHNSGASHGL GRQPSLGV
18616	48984	A	18725	1855	2506	GASPSVWDPTENRTVQLHLGS HSQSPWNTGQRSRLTSFPDLL GLAAED*HCPITSEAPLITTDAR AMG*LTSTVEGKVPVPLINTEAT HATLPSFGQGPVSLASITVVGID GQAF*TSCLKLPNSWCQH*TIRR FKHSFLVIP/TCQVPLLG/EDTLT KLSASLTIPGLQLYLIATLLPNP KPPLCPLVYPHLNPQV*DISTP SLGDRSCTPYHLIKT
18617	48985	A	18726	2	979	TSTMAVGNKRLTKG/GKKGA KKKVVDPPFRKDWY*RRKHPL MFHVRNIEKDVGPSRTPRDPKL QSDGLKGSVCLKVSPAELPE*L KFAFRKK/LITEDVSGVKTCPD LTSHGAWDLYP*QNCSCMVQK MGRPMIEA/HVECSR/LDGYLL /RLFCVGFYLNKRNISDHGRPSY AQPPNRVR/QIR/KMMMEIHDPQ RLQTNVP*KEVVNKLIPASIGK/ DIEKACQSIYPL/QNVFVKKV KMLK/KPKFELGKLMELHGE SSSGKATGDETGA/VERADGY GPPVQESVGFRLPIVGNRS GVHPRJ
18618	48986	A	18727	1	615	ASTAAPRMILLFPQRYRTLQ RLLMPKKNR/IAIYELLFK/EGV MVPK/DVPIKHP/ELADRNVP NLHVMKAMQVSQSPRGVYVKE QFA/WKISYWCLTN*GYQGV ISSRDYLHLPP/IVPA/TPLR RPED/SGRPSA*KGLEG*SDLAR LHKNGEAGQLPYRR/SAVPPG /ADKKAEAGLGQKPEF/Q/RG GFVRGRGQ/PPQ
18619	48987	A	18728	3	395	SAEVGAAETTLTLLRRTVQSLEI DLDSMRNLKASLENSL/GILLHL ESELAQTRAEGQRQAQ/EYAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH

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18620	48988	A	18729	323	1973	PCMWIGFAAVRKGLKSSSASC GCTRRVRGTWWQGLSRVCVA RNEEVRLWGLCWLGSSPPAGW NNVFYMLISADVLACLEPRAN KEAANELAGAVDLGWMANVR RNPDMVSTHGLTHFHLRKTTP PRGEKTCELASQQPLIEATTKT KSVAVSHILTYTPPTLNGVAAV SSRVHFSFWPPTLQTGLEQGS SFTICFTTSTNYQSLHSIQPHSHS VQFISSTAKVYA VLRGLGSRSTS VSFSTFSWGWGSGGLAAGMP GIDNARLAADDFRVKYKTEL MCLSVESNVRGLHKVTD DNTV TRLQLETFMEALKEELFMKK NQEKEVKGLQALIASSELTMEV NAPKSQLSNIMADLPAQYDEL A\RK N*EELDKYWSQED/IEEHT TVVTNTSLLEVWSC*DARLTEL RRTSPGLWRFDLDSMRNLK\AS LENSL/REVEAPYAL/QMEQL\N GILLHLESQGLQTPRTEAQQA Q/EYEALLNIKVKL\EAENATLP GRLLGRMAKDFNL\GDS\LDER NSFQNL\QKNTNTPPGNV\DGKVV S\ETN\DTKVL RH
18621	48989	A	18730	1	897	MGHHRQSLSPVLSLYSPDSMS FTTRSTFTTNYQSLGSVQAPSY GARAVSSAASVYAGAGGSGSRI SVSRSTSFRRGMGPGLAAGM AGGLAGMGGIQNKKTMSLN DRLAS YLDRVRSLETENRRLES KIREHLENKGQPVKDWSHYCK TIEDLRAQIFANTVDNACIVLHI DNARLAADDFRVKYETQLAMR QSVENDIHGLRKL ETEIALREE LLFMKNHIEEVKGLQAQIASFR LTVEVDAPKSQDLAKIMADIRA QYDDLAKGNREELDKYWPQQF EENTTVVTQSAEVGAA
18622	48990	A	18731	3	423	SLSPVLSLSPDSMSFTTRSTFT NYRSLGSVQAPSYGARPVSSAA SVYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRLAS YLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNAR

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18623	48991	A	18732	663	2089	AFTTRSTFSTNYRSLG\SVQAPS YGAGPGRAARPASYAGAGGSG SRISVSRSTSRFG\GMGSGGLGQ RELAGGLAG\MGGIQ\NEKETM A/QALNDRGLGLFTWDRVRS LG DRRTRKLGRAKFREHFGRRKKG PQVR\DWSHYFK\IEDL\RAQIF RKYLLDNAPHPFLQDLTIAPSL LD*F*EFKY*GQSLAMRQFLWR NDIPLGSAKV\IDDTQYHTDLQ AWRQRFEAPQRRELALSMKKE PRRRKLKGLSSPRLPSSWG*PVE VRLPPNFQDLRQRLADIPGN MNELGSKKNPRRKLQSTWSQ QI*GRAPQLVTTTSLLEVGSLLK TTL/TQKLRTSPGPWKIRPWTS MKKS*KAQLGRNSP*REVGRPP YGPYKMEASFRRGSLHP*SQS W/QTRPGAEGTAPQAPRSYEGP C*NIRSKLEA*DRPPYPALLE D\GEDF*SLVDPLDSKQLHAKPI QKTTTPPG*VGLGKVVS
18624	48992	A	18733	53	1100	NFRVEAGVRGVQKQKTCFAFKV LES\GKFG\GLALAVAGGVVNSA LYNVDA\G\HRAVIFDRFRGVQ\ DIVV\GKGTH\ALIP\WVQETQLS FD\CRSRPRNVPSQSTG*AKDL QNVQHHTAASLFRACRQPSFPR IFTSIGEDYGWSVCLPSITTEVL KVSVGS\WMLGELITKRE\LV RQVSDDL\TERAA\TFGLLDDV SLTHLTFGK\DF*AVEAKQVA QQEA\EGQICWLEKAEQKK\ AAIISAEGDSKAAELIANSLATA GDGLIELRKL/E*AAEDIA\YQLS RSKNITYLPTGQSVLLQ\LPQLR GPPLPCTSRGLDLGPQRLILNN SLSFLLPTEINCEIFMIGLK
18625	48993	C	18734	222	458	

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18626	48994	A	18735	2104	2758	QFCPSRQKGLQKTRHFVAGH GGDFLFRSPTHAFFFCVPLFLPLP P/VTIVRPCPPFS*VLSSSPRNSQ NTIPRSPFLSPGTLRSRPA GSRDP GNPAPGSNTRLGPTAPVSR LAP VDIGFRSTDCWSLQPVVPVNG SRPAPTNP RSRSTPVDPGSNTRL GPTAPVSR LAPV/V*ALGPLTAG PYSRP/CPVNPGRPAPTNP RSR STPVDPGSNTRLGPTAPVSR LA PVDIGFRSTDCWSLQPVVPVNP GSRPAPTNP RSRSTPVDPGTRTT PEGL
18627	48995	A	18736	2	280	AMGFIVAPSLGCF/VGSRFVHG EGLRWYAGLQKPSWHPHWV LGPVWGTLYSAMGYGSYLVW KELGGFTGVSRASEVAPPEPPP GSSVLCFLHA
18628	48996	A	18737	331	972	TAAAAAMAPPWVPAMGFTLAP SLGCFVGSRFVHGEGLRWYAG LQKPSWHPHWVLGPVWGTLY SAMG*VGVHWPGDKPGLQGE AWPRTEDTGQALNWA WPPIF FGARQMGGALVNLLVSIGAA GHTTLGGRGAS/QWLAARLLYP \YLGLAWPSTTTTQITCVWR/D NHGWHGGRRLARVSARPTMG LQLHQAGAITLVMW WPSRFHD HWAC
18629	48997	A	18738	1	603	
18630	48998	A	18739	1	1782	
18631	48999	A	18740	237	876	CESFCWHHFFWDIFNLVFTA PF LVHVDYQGFESVAKKYDVMN DMMSLGIHRVWEGFSCSGKMH PLPGDQLLDVAGGTGDI AFRFL NYVQSQHQRKQKRLRAQQN LSWEEIAKEYQNEEDSLGGSRV VVCDINKEMLKVGKQKALAQG YRAAHKSGVILDCLWFPPILHPI AQQICQLYLQNTSGIWPSLPYL CYHLLVQATIPSYLDCNSL

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18632	49000	A	18741	112	995	VLGSLSQEKRAETHFGFETVS EEKGGKVVQVFESVAKKYDV MNDMMSLGIHRVWKDLLWK MHPLPGTQLLDVAGGTGDIATR FLNYVSPASEKTEEAVKGP FILGKNLPKSTRMKKIPWAG/TR VVVCDINKEMLKVGKQKALA\ KDTRAGLAWLL*DAEELPFDD DKFDIYTIAGIRNVTHIDQALQ GSSFGCLKPGGRFLCLGFSQVE QSP\LSRLYDLYSRSRVIPVLGEV IAGDWKSYQYLVESIRRFPSQE VKFKDMIEDAGFPQ/V*LTKV*H QGIVAIHSGFKL
18633	49001	A	18742	117	403	
18634	49002	C	18743	62	370	
18635	49003	A	18744	179	527	IQEPPV1**GLHMVHNFTIFVSS YFKFESTFAISFLKVNT/CFFSI* IKSLDEQCVVGKISKHWTGILR EAFDADNFGIQFPLDLVDKMK AVMKVGICGNLVKQGNFTMT HSN
18636	49004	A	18745	3	1242	AAPQAGLSPVAIAAQLHLHS TQCSSPNTCCLPRRTRATIIYSR WSYHPLGSPV*SP*PFQEAS/AL TLPPACSFYGPLT*FQPK*GSFP LSQ*MEYTIGLYT*TFHCPGTSR RQIPSSYLNCDAFLPLL/SNPP QCRPFTGVGLVDVLTGFETNN KYEIKNSFGQRVYFAAEDTDCC TRNCCGPSRPFTRLRIIDNMQGE VITLERPLRCSCCPCCLQEIKS LDEQCVVGKISKYWTGILREAF TDADNFGIQFPLDLVDKMKAV MIGACFLIDRNCSPAMEQSWM ENYFDEMTIGFRRSVITNFSEL KEHVLTHCKEANKNLDKMLDE WLTRKNSVEKTLNELMEVKTI NEKLTIGKISKYWSGFVNDVFT NADNFGIHPADLDVTVKAAM IGACFLFAFRLGSELHN
18637	49005	B	18746	277	2415	
18638	49006	A	18747	102	196	

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18639	49007	A	18748	897	1656	SNAGLRHVCTSCQSGRARSCH VGLHTPWVS*VPWHPWIRWR GDPQKQSRKCCVPGGAP/QK GGDPEPQPSLSVSWNLGSCA GFRAVLPRKPQRKVLFASSA GTAATEPPR**LAWKADSGGDP WQQPQQSARPHA*TWTRGD GAPPGRVA/QGRGTAGGASAG VSSGRSRGSPQTGFQALQSCLE ASRRPPVVACNPHAPALPAAQ AGNRATLMTGSLQPMIYEE AQLRLEELCTKARLNCQWFL
18640	49008	A	18749	756	884	CLQRLPPGFRROPSKYRRNRG KSGKG*RPSPVATWQPDYNI
18641	49009	A	18750	1826	2772	RRVLEAMGPSRAAKVLSVCVR SRIGPLICSQRHPATSKTKPQGR PPGEQGTPRDNRPRNNRPARSA TPRGA/PQGAAPRPGEEPAPQT IDKGPPSPSGHTRRLARSGNQ PPERHTPAAGGKTRYVRQSVL HRARGGEPVRMPRLPRIA EA/P APDRVECF*VVQSPAREMHSCQ ADSMCPVW*GRIWRSAGSC*SR SEKILVWIPQSLQAHAACPSEA HKMPGNPRDGGAGICKSSPGG KGERRKVEGGSTTRAGTSRDS VSKRHANTMGEQAQGEKHPRG TV*KTKRRGPKQGTGRGKAPEE ETSREPPCTGPI
18642	49010	A	18751	196	322	
18643	49011	C	18752	189	650	
18644	49012	A	18753	1	53	
18645	49013	A	18754	31	449	
18646	49014	A	18755	1	389	GMPTSTIASCSQDGRVFIWTC DASNTWSPKLLHKFNDV VWH VSWSITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQDDYFP RRSYRCSHRLICLNVIGNAL
18647	49015	A	18756	1	1041	
18648	49016	B	18757	15	782	

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18649	49017	A	18758	1	1425	EVKKINNAHTIGCNVSWAPAVVPGLSDHPSGQKPNYIKRFASGGCDNLKILWKKEEDGQWKKEQKLEAHSWVRDVAWAPSIG/IWPPSTIASCSQDGRVFIWTL**CPQAITVPLNCLHKFNDVVLGMLNWGPSQPTSLAVSGGDNKNGTNTVCPTGWLQDSNTLVHLV TYKMPRSLGLGLWCQLLSPRKYREGTSPVSLWVGVEWFNPDWWSGIRVYHPSPSGSYRTHKPPLNNLSCDTSIIRELLGKKFLLFVSVPVPSTVLGRKKVSVINTVDTSHEDMIHDAQMDYVGTRLATCSSDRSVKIFDVRNGGQILIALRGWPRASRYQQGHQDLFILRSDLPSQVFIRDKLMERRNRRTGRTEKARIWEVTDRTVRTWIGEAFAAAAAADGVTFSPVPTPHTFRHSYAMHMLYAGIPLKVLQSLMGHKSSISTEVYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
18650	49018	B	18759	323	1583	
18651	49019	A	18760	3	419	PSASSSPARIPAAATRQGRSPRIPAPSNEAPRLPADREFLEQQPPRFPKPTIQASGADRAVDCGILKLLKQSPARLARPRWPRRPSKRFWSAAGSVEEQPKPPRRRAKSPEQSPQLSVLPLVTITPQASGASFEMKN
18652	49020	A	18761	2	385	WGRGGGRGLLYGRRHFVRRRRRGGGRSPGESALTVT*GAV/PSAFRESAQPGPRSSSAHISTSPKRTDGGGRDS*PGLPRSSLTPSLPRPASFSTSPGRVSAFHRLPRHS/AGPGLSGSS*PQPYSDPT
18653	49021	A	18762	242	422	

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18654	49022	A	18763	2	992	AREKKQKTRRQNKNIPIRQINKT QRICCC*QSCLTMTQDFFWPLCQ GHSRGAPCLLVPPGLSLTCAPA QPAARPGVSQLTCAIACTHIQW FPSSCPPSEKNGDTLTVKTPSA SSSPARIPAAATRQGRSPRIPPAP SNEASPAAGRPRVPGAA PPRFP KPTIQASGADRAVDCGILKLQK SIPARLARPRWPRRPSKRFWSA AGSVEEQKPPKAP/PAKSPEQS PQLSVLPLATITPQAYGASFEEK MKNLKTTRRGRSRWHFFNVIP QAPSLK WGFQTS DASSAEVFH VDRLASHKMGPRRPSPLW APPFCEAAAARRQEPGVCIMVE
18655	49023	A	18764	292	348	
18656	49024	A	18765	2	466	LITVVKLLDTMVDTLFQLKLV AGSYQRFTDCYKCFYQLQPAM TQRIYDKFIAQLQTSIREISDIK EEGNLEAVLNALDKIVEEGKVR KEPA/WQRDTLRRHVQKQEA NQQLADAVLAGRRQVEELQLQ VQAQQQAWQALHREQRELVA VLREPE
18657	49025	A	18766	2	511	FNMAEASSANLGSCEERHE GSSSESVPPGTTISRVLKLLDMV DTFLQKLVAAAGS/YSTPSLGRK CWS RLPSGGQSVKQAFSWAAC RLPQGRKEEISDIKEEGNLEAVL NALDKIVEEGKVRKEPAWRPS GIPEKDLHSMAPYFLQQRDTL RCHVQKQEAENQQLADA
18658	49026	A	18767	224	748	NRPVGRRAGYHRRGSSYQRFT DCYKCFYQLQPA MTQRIYD/K FIAQLQTSIREILFDNQKQEGE PRKLSWNALG*KFVGTKGKVR KEPAWRPSGIPEKDLHSMAP YFLQQRDTLRRHVQKQEAENQ QLADAVLAGRK/QVEELQLQV QAQQQAWQALHREQRELVA VLREPE
18659	49027	A	18768	1	421	

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18660	49028	A	18769	666	1445	AGITTIEAAKRTIQVLHLQAND AQERAVERSQREFREERRAREPG LRLK*SFNNRRIQLVEEELADRA QERLGHLPCKKL*RS*KKLAD SERRY*RLFENRALKRLKEKIG TSREIPTQKKLKHICRKEADRK YEEVARKLGDHLKEDLEPTEVE RAVELAESRC*EIDEQIRLIDQNL QCLSAEDKYSQKEDKWEEE MKILTNKLREAE TRA EFAERS VAKLKKTIDDLKCKCTKEEH LCTQRMLDQTLDLNEM
18661	49029	A	18770	2	158	SAAPGAVPPPEADSTSAGMSRR PCSCALRPPrCSCSASPSAVTAA GRPRPSDSCKEESSTLSVKMKC DFNCNHVHSGKLKLVKPDIGRL VSYNPAYLEGSCDKICKDYER LSCIGSPIVSPRIVQLETESKRLH NKENQHVQQTLLNSTNEIALET SRLYEDSGYSSFSLQSGLSEHEE GSLLEENFGDSLQSCLLQIQSPD QYPNKNLLPVLHFEKVVCSTLK KNAKRNPVKVDREMLKEIARG NFRLLQNIIGRMGLECVDI LSEL FRRLGRHVLATILAQSLDMDLI NVSKVSTTWKKILEDDKGAFQ LYSKAIQVRVTNNNKFSPHAST REYVMFRTPLASVQKSAQTS KKDAQTKLSNQGDKGSGTYSR HNEFSEVAKTLKKNESLKACIR CNSPAKYDCYLQRATCKREGC GFDYCTKCLCN YHTTKDCSDG KLLKASCKUGPLPGTKKSKKNL *RLHVGWHEPAPLQRPATPL LLQRQRPQRSDSRRAPSTLG

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18662	49030	A	18771	4	1276	RKAASSYVSRMALPIIVKWGG QEYSVTTLSEDDTVLDLKQFLK TLTGVLPERQKLLGLKVKGKP AENDVKLGALKLKPNTKIMMM GTREESLEDVLGPPPDNDVVN DFDIEDE/R*FEVENREENLLKIS RRVKEYKVEILNPPREGKLLV LDVDYTLFDHRS CAETGVELM RPLYHEFLTSAYEDYDIVIWSA TNMKWIEAKMKVKPLGVIWG KFSEFYSKNTIMFDDIGRNFL MNPQNGLKIRPFMAHLNRDK DKELLKLTQYLKEIALLDDFLD LNHKYWERPRVRCHIFHGKED RYDPCPMGACSKTVCTTNLA LPALPLGSMKNGQPCRNVIQK GYALTVINSGPQQGLFVRILLG LFIRDFFPAGCGARPFWNEGLM AYFQRRTLVGVMLVLSSSKSFK
18663	49031	C	18772	113	257	
18664	49032	A	18773	143	330	HHGPVPFPRGLIS*HSLHCPCT PGGKNVFFFCYEYFLKLAGIETT NCSADKRGGKVKCLIPR
18665	49033	A	18774	3	432	
18666	49034	C	18775	112	192	
18667	49035	A	18776	3	1015	SSRPVRPRPAARLSAMSSTQFN KGPSYGLSAQVKNRLLSKYD PQKEAELRTWIEGLTGLSIGPD FQKG/LKDG/TIL/CTLMNKLQP GASVPKINRSMQN/WHQLENLS NFIKAMVSYGMNPVDLFEAN DLFESGNMT/QVQVSLALGG KRPKTKGAEEGLDIGVYSE KQERNFDDATMKAGQCVIGL QMGTNKCAQSQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GTNKCASQVG/MTA/PGTRRHI YEYQAGNPTSCDNFSM/SLQ/M GYTQGAQTQSGQVF/GPGRPDI *TPSTCPQGTIADGAPSGTGDC PDPGEVPEYPPYYQEEAGY
18668	49036	A	18777	2	110	
18669	49037	A	18778	74	289	

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18670	49038	A	18779	138	2039	GAAMAAAGRLPSSWALFSPLL AGVALLGVGPVPARALHNVT ELFGAEA WGTLAAGDNLNSDK QTDLFV/LAGKK*LNR/LFGRPE CTRILNPK*RYLSRITVH**QV*S LGAYDGDGQMDVLLTYLPKNY AKMN*ELSSGDKIKH*ILT*I*P YSIGL/LQDEPLIMDFNGDLIPDI FGITNESNQPIQLGGD/CYHGI QH*PLQVKCEFH/PHAFIDLTE DFTADLFGATLNGTTSTFQFEI WENLDGNFSVSTILEKPNMM VVGQSAFADFDDGHMGSFTC QGCGR*K/CAKRVPSYLVRSGM KQWVPVLQDFSNKGT/WGFVP FVDEQQPTEIPITLHIGDYNM DGYPDALVILKNTSGSNQQAFL LENVPCNNASCEEAARRMFKVY WGADRPKSN/SKGAMVATFFDI YEDGILDIVVLSKGTYKNDFAI HTLKNNFEADAYFVKVIVLSGL SISNDCRPKITPFGVNPGLTYH VYNCRCKWVSEK WIR/WPNSAQ SAHLALQLPYNVLGFRVGSANF LDHL/SLGIPRPSWRKIFYGKQE WTAIIPNSQLIVIPYPHNVPKL GVPCNCLYTKLILFWLTAIALIR CLCFQSLAINWHFTLGREKKAG WIEEKTRKCAHRFPFWMAMW
18671	49039	A	18780	1	966	
18672	49040	A	18781	1	1035	RPFVPVPGVQKCLPTRGGHLHG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRPSVASGREM VVLSVPAEVT/VILLDMEGTTTP IAFVKG/DILFPYIERKMLK/EYL QTHWEEEEFQ/QDVSLFEGNK A/EEDAHL/DGA/VPIPGKHLGIG VDDLQQM/IQAVVDNVCWQM SLDRKTTAL/KQLQGHMWRRAA FTAGRMK/AEFFADVVPA/VR/K WREAG/MKVYIYSSGSVEAQKL LFGHSTEGDILELVDGHFDTKI GHKRRRVKVKTRKVIADSGCST NKHVFVWTDVTSRRASAGLRE AGCCTLAVVVRPGNAGINR*L RKTTYSLITSFQWNYLPSST

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18673	49041	A	18782	1	528	DNELLDYEDDEVETAAGSGMS/EAAPAKKDVKGSYFSIHSSGFRD/FLKPELLRAIVDCGFEPH/PSEV/QHECIPQAILGMDFLCQAKSGM/GKTA V FVLATLQQLEPVTGQV/SVLVMCHTRELAFQTR*KTRPF/WNVTVCPSGEDTRVGKETLL/PPPLTAPTWPWLPFSAPPLNPH
18674	49042	A	18783	207	309	PPHSALLPFFTPFLPSPQLEIFVD/DETKLTLHGLQQYYVKLKDNE/KNRKLFDLLDVLEFNQVS*TSS/RGMSIGALQL*QKPGY*VHFY
18675	49043	A	18784	85	348	
18676	49044	A	18785	1	930	CCCRHTRSPCLVMAENDVDNE/LLDYEDDEVETAAGDGAEAP/AKKDVKGSYFSIHSSGFRD/FLKPELLRAIVDCGFEPH/PSEV/QHECIPQAILGMDVLCQAKSGGER/QAVFVLATLQHLEPVTGQGV/CAG*CCHTRELAFQISKEYERFS/KYMPNVKVA VFFGGLSIKKDE/EVLKKNCPAYPSVGTGPRILAL/ARNKSLNLKHIFILDECCKM/LAEQLDMRRDVQE/IFRMTPH/EKQVM/MFSA/LSKEIRPVC/RKFMQDVNTLLPSLPPLPARCLLP/LALFLRLPCHSSAKKAACAQLG
18677	49045	A	18786	96	1618	LFTPCFHLFCENPSRSPFSPAG/PVMAENDVDNE/LLDYER*MR/WETAAGDGAEAPAKKDVKG/SYVS/LSHSSGFRD/FLKPELLRAIVDCGFEPH/PSEV/QHECIPQAILGMDVLCQCKSGMGKTA V FVLATLQQLEPVTGQVSVLVMCHTRELAFQISKE/YERFSKYMPN/VKVA VFFGGLSIKKDE/EVLK/R/RNCPH/VVG/TPGRILS/LWVRN/KSLNLKHIFILDECCKMLEQ/LDMRRDVQE/IFRMTPH/EKQV/MMFQCYLGAKEIRPVC/RKFM/QDPMEIFR/VDDETKTLHLGLQ/Q/YYVVKLKDNEKNRKLFDLL/DVLEFNQVVFVKSVQ/RICAL/APAY*WEQNFPALAHNRGDAP/RKERLS/R*SSSFKDFPTNEILIG/YPTLFGRRHGTSEAGETIAF*FM/NMP*GILKTLPCR/VGPEQGRF/GHPRGLAITFVSDEE*LPRSCD/DVQGSALRVKFS/ELPDEIGHLP/PTLEQDTGRRLAHFNGVDRFL
18678	49046	A	18787	1	363	

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18679	49047	A	18788	78	714	GTTEGRQAEAVGYLCVLP LTL PLVTRLPPQVADTMLPPMALPS VSWMLLSCLILLCQVQGEETQ KELPSRISCPKSGKAYGSPCYA LFLSPKSWMDADLACQKRPSE KLVSVLSGAEGSFASLLARSIS NSYSYIWIWGLHDPKKGSEPDG DG*EWSSTDVMNYFAWEKNPS TILNPGHCGSLSRSTGFLKWKD YNCDAKLPYVCKFKD
18680	49048	A	18789	52	186	QSEVHHGISYTTGQGENLSEPI WKSWQRSQDL*QENHPEIYSLT
18681	49049	A	18790	666	2732	KQLIKMICYFILLILLSSHIGKD KAIIDKNGILVQYVQE*KLVEPF *KAIWPPCMETLNVDTPFPQPV CLGIYPNE*KLSK/CFKP*APKV YFHGCL*Y*NHWEPTETIPVK GWIK*ILF
18682	49050	A	18791	112	340	
18683	49051	A	18792	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSTGTQPVSHAASVYAG LGGSGSRISVSHSPMAGGLAG MGGIQNEKETMQLSRDLASY LDRVRGLETENWKLESKIQEH
18684	49052	A	18793	1	994	APSYRA/RLVRSVASVYAGPGS SGRISMSRSTSFQGGGSRSM AA/GMAGGLAGMGGIQNEKET MQSLNDRLASYLDRVRSLEMG NWKLESKIWEHLEKKGQVRD WGHYFKTIEEDLTQIFTSTVDN TCILQIDNAHAAADDFRVKYE TEPATCQSVENDIHGLHKVIDD TSVTQLQLETEIEALKEALLFLA KKNHEES/WRHTVQALEIDL WMKNLEASLENSLK/EGVEAC YTLQMEQLNGILLHLESELAQT WAEQGQQAQYQALPNIKVKL EAEIATYRRLLLEDGEDFNFGDA LDSSNSTQTQKTPCT/RTVDGK VVSETNDTKVL
18685	49053	A	18794	3	377	
18686	49054	B	18795	54	136	
18687	49055	A	18796	149	419	

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18688	49056	A	18797	83	1402	A EKAGGKKGEAPSYRA/RLVRS VASVYAGPGSSGRISMSRSTSF QGGLGSRSMMAA/GMAGGLAG MGGIQNEKETMQSLNDRLAS LDRVRSLEMGNWKLESKIWEH LEKKG PQVRDWGHHYFKTIEED LTQIFTSTVDNTCILQIDNAHL AADD FRVKYETEPATCQSVEN DIHGLHKVIDDTSVTQLQLETEI EALKEALLFLKKNHGEEIKGL SRRQIASGVD PWRVDPAPKSSG PSPKIMGRHPGPKYDELARKR TREE/LAKYSSQ/QIEEST/TQLV TNTSLL/GGLELAETNLHRS*TY KSRSLDSTLDSIEKS*KAQAW KKQPLKGSWKAPLRPLPDWSK LQTGILACTFESRAGNKTRARG TSAPGPQEL*GPLLKHQKVKAG GLRSP TLPARLLEDAEAL*SLV DPLDSKQLPCNTIQKTTTPPG*V
18689	49057	C	18798	140	283	
18690	49058	A	18799	2	783	VVQFARREKPPSSKVSQRHPCT EAVREVLHG/NQRKSPQRSWET VELQISLKNYDPQEGQSFAFGT RQALSP LPRPKFSCVCPGGTQQ H/CDEA/KARGISPPHGTFEGA* KNLNKE*KNWSKKAGPRKY*L RFFGPQKSLDQSKIPPNSPGPGF K*RAGKVFPFPWFTHNENMGG PKLDEGEVPPIQVFQMKERCLC L/AVAV/GHVKMTD/DELVYNI HLGCQLSWVSLKKEKNWQNV/ RALYIKSTHGQSPKRLIFKAHFE
18691	49059	C	18800	239	555	

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18692	49060	A	18801	401	3014	TRASSTMSKSFQSSLSRDSQG HGRDLSAAGIGLLAAATQSLSM PASLGRMNQGTARLASLMNLG MSSLLNQGAHSALSSASTSSH NSQSIFNIGSRGPLPLSSQHRGD ADQASNMLASFGLSARDSDELS RYPSDTITPENLRPILLQLKRRR TEEGPTLSYGRDGRSATREPPY RVPRDDWEEKRHFRRDSFDDR GPSLNPVLDYDHGSRSQESGYY DRMDYEDDLRDGERCRDDSF FGETHNYHKDFSEYERMGRG PGLQERSLFKKRGAPPSSNIE DFHGLLPKGYPHLCSICDLVPH SNKEWSQHINGASHSRRCQLLL EIYPEWNPNDTGHMTGDPFM LQQSTNPAPGILGPPPPSFHLGG PAVGPRNLGAGNGNLQGPRH MQKGRVETSRVVHIMGFSTE GKTLRYQLQLVEPFGVHFKEFI *FLNKNLLRAFIEMATTEDCFK AAVIDYTTTPALVFGKPVVRV HLSQKYKRIKKPEGKPDQKFDQ KQELGRVHLSNLPHSGYSDSA VLKLAEPYGIKINILMRMKS QAFIEMETREDAMAMVDHCL KKALWFQGRVCVKDLSEKYK KLVLRIPNRGIDLLKKDKSRKR SYSPDGKESPSDKKSKTDGSQE AERSTEGKEQEEKSGEDGEKD TKDDQTEQEPNMLLESEDELLV DEEEAAALLUESQFSGETSDL
18693	49061	A	18802	3	1013	NCRAAWRAKLEGCLSLRRNAC QCFLIWTQTPDREQSYSLDQLP REVLNQEEKSISWDIYLHLEM GNGLSDQTSILSNLPSFQSFHIVI LGLDCAWKRQLSYTRLQFQLN L*NTVPYPKGFNTEKI*/RVTLG NSKTVTTFHFWDVGGQEKLRP LWKS YTRCTDGIVFVVDSDV ERMEEAKTELHKITRISANRGV PVLIVANQKDLRNSLSLSEIEK LLAMGELSSSTPWHLQPTCAIIG DGLKEGLEKLHDMIIKRRKML RPTRKRKDEYQFPNIICVGVGF LWSDFDKNRRVSTAGVCLSAAPP WMLLKLCFVEQFRCPTRVALW KMSKCSAS
18694	49062	A	18803	3	1103	
18695	49063	B	18804	34	734	
18696	49064	A	18805	1	1741	

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18697	49065	A	18806	6460	6635	RTSTERSHLKTRYQRTSCSSNR* LNSSSSKTSFRCSLTSLFWRHT IFNMLLINRLL
18698	49066	A	18807	5567	5853	IGILEA*LLRNLPNDSIKALVDA *YKSLLSAVERCSFMVLFGPEM NKPPLAILRIQSGVNRPPVISIM ALIGPLVTPSASTYSGVTNADLS SATK
18699	49067	A	18808	664	992	SCADIHGYHRGNSSNDSNLIP KQTNRDCLNNGHQNHSCNG/D *PQPQR**QLTLQNLMQHQ*KQ QYPLPQHQQE*RTR
18700	49068	A	18809	3	1698	
18701	49069	B	18810	227	883	
18702	49070	A	18811	180	373	PDTLRSILPMLLEQLFCRTFGLL SP**RDTSLHLGHKTEQHT*LV MGSWFYLLASQQPRCCYAC
18703	49071	A	18812	495	701	
18704	49072	A	18813	138	418	AYRLLCLVYSEGFMHLEFQ NRLYHQLVF*GRLWHFWKSIK RFSIY*FFWYRW*YICKLNKGR LQDVIGVINT*CHFLS*GLH*TI PIHRL
18705	49073	C	18814	62	175	
18706	49074	A	18815	644	828	
18707	49075	A	18816	1	1107	
18708	49076	B	18817	84	342	
18709	49077	A	18818	3	1399	
18710	49078	B	18819	1	1377	
18711	49079	A	18820	1	546	
18712	49080	A	18821	855	1099	VTLYSEYQHPSVREYGLYLTSH RIEPLCEVHRTL*PVLLSMQPSV LEYEQQGVEAEY*LQEECHH QRTSSL*DLKQLLQ
18713	49081	A	18822	1	1680	
18714	49082	A	18823	1	3951	
18715	49083	A	18824	2	6446	
18716	49084	A	18825	2497	21785	SSPYPTFKQSSTNNFVFDGNELF NSRDRLSQRFLYLQSSVHLINR Q/LEGYVQHHLNLAEL*HHGLG KDAYIAAMYNDDGATFQMEI GGIHTNAALAAGDKLQCIWRY LDVNGNAPAAENEFVVSVEG FGTSNFSVKCKGMLPGKFIGCD AFYKGYLQTDGPIKQVDSVKW FTNLTVSGSGRKLQGRKYPQ VVMGMGMTSGFDDGYNLTP RQVKMAYGLGYRDWWTYIG MSHYWKLTAQDKETGELI
18717	49085	A	18826	31	479	

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18718	49086	A	18827	255	1002	SQFSLSQLVLVDSAEEGSLAAAA ELAAQKREQLRKRFRLEHLMR NEARKLHHQEVVEEDKRLKLP ANWEAKKARLEWELKEEEKK KECAARGEDYEKVKLLFISAED AERWERKKRKNPDLGAFSDY AAAQLRQYHPV*PKQIKPDME TYERLREKHGEEFFPNSNLLH GTHVAFHRGKFDREVLRSGKN QFEKRD/KF*ARRRPYNDDADI DYINERNAQFNKKAERFY\GK YTAIEKQNLERGTA V
18719	49087	C	18828	91	225	
18720	49088	A	18829	3	212	
18721	49089	A	18830	88	239	
18722	49090	A	18831	865	1898	QQQQQQHRRYPRRRSPRAWC SHPRSPLLFLPSLAPWPDQLTEE QIAEFKEAFLFDKDG\DTITTT KELAGTVM\RLSLGQEPNKKLE\A QDMINESGMLMG\NGTHLTFFPR IF*LMMARKMKDSTDSEGN/LR EAFRV\FAKDONGYISAELR\H VMTNLGEKTTFR/KKVDEMIRE A\DIDGDGVNYEEFVQMMTG KMEDLTFLQPFSPPLEESNWNL LLTFLQKKKKKKVHLFHSCFL YSKTECQKYL\LVH\THQNLHVL VGGPCPLKDKQATHQFYNTCT NLNDNGLLKR\SILLMINTL\FGL ASFFHACSFDDWSTSQGLWYL KLENGKNQISKPIPNGLV\HFV
18723	49091	A	18832	1	330	WVVLKNCVGVGLLIAT*MWFI SNKYL\VQRQSRDYDVEWGYAF DVHLNAFYPLL\VLHFIQLFFIN PLPFLKNTVILLYPFAPLILLYGL SLALGWNF\THTLCSFYKYRVK
18724	49092	A	18833	1	534	VPSNSVNSLVQNGVNLNSRDA ARH\TAGAKRYKYLRRLFRFRQ MDFEFAAWQMLYLFTSPQRVY RNFHYRKQTKDQWARDPAFL VLLSIWLCVSTIGFGFVLDMGF FETIKLLLWV\LDVGVGLLIA TLM\WHCHFVKQVILLYPFAP LILLYGLSLALGWNF\THTLCSF YKYRVK
18725	49093	C	18834	295	570	

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18726	49094	A	18835	418	1567	SFTLNKNCVLQRVSSILPNTAEV DFPSWTTQSDWQQTRAQVLLQ ARARAALRLVLIIRLHDGASPP MRTRLSPATLATGSGASEAPV SGDRKPAATTSGGPRRKMLPST SVNSLVQGNVLSNRDAARHT AGAKRYKYLRLFRFRQMDFE FAAWQMLYLLTSP*RVYRNF HYRKQTKDQWARDDPAFLGF PFKYSGFCVSTIGGFVFLDMG\ FFETIKLLLWVGLID\CVGVGLL IATLMMWFISNKYLVRQSRD YDVEWGYAFDVHLNAFYPLL VILHFHQLFFINHVNLTDTFICY LVGNTLAWLVAVGYIYLR*LSL GYSVGLLFFSSIAHF*KNTVILL YPPA/PL*FLPTGFPLALGWNF THTLCSFYKYRVK
18727	49095	A	18836	1	888	MPGLLLLRGSQNLKQQAELCG LGLALVISAVKPLSKKFMLPNP TSMKPESDGIYSINLKRTEWKL LLAGHAIVVIENSADSVISSRN TGQKAMLKFAAATGATPIAGH FTPGTF/TNQIQAAYWEPRLLV VSDPRADHQSLEASCVNPPAI ALCNTDSPLCH/VDAITCNKNG APSVQGMW*MLAWEVLHMRG TISCN/SPWEVMSNLYFYRDPPEE TEKEEQAAAEKAVTKKEFQ GK WTVSAPEFTVTQPEVADWSEG MQICNLGKAQQGQLSSDAEDD FWSLESLDGYSHITVTR
18728	49096	A	18837	74	848	REIFINVRSLMACFVKEEDVL KFLAARNP/HVGGTNLDFQME QYIYIRKSDGIYIIRLKRTEWKL LLAARAIVAIENPADSVISSRN TGQRAVLKFAAATGATPIAGRF TPGTF/TNQIQAAFRE/PRLLVVT DPRADHQLTEASVNLPTIAL CNTDSPLRYVDIAIPCNKGAH SVGLMWWMLAREVLRMRGTI SREHPWEVMPDLYFYRDPPEIE KEEQAAAEKAVTKKEFQGEWT APAPEFTAQPEVADWSEG
18729	49097	A	18838	72	528	DEACGVCCYSPGASPMPP*GRT RKEGRTAGKVRPKERPCTPVN/ KSGGQGPKRKNWSKRQKFRDK LNNLVLFDKATYDKLCKEVP NYYKLITPSLWSPERLKIRGSLA KGKPFQEA*VKGLI/RNLVSKH RAPSNFTPGNYQGWEDAPSL

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18730	49098	B	18839	6	125	
18731	49099	B	18840	249	291	
18732	49100	A	18841	128	669	RPGHAQTI.GSPSLALGMAGQF RSYVWDPLLILSQVLMQTVYY GSLGLWLA/VVDGLLRISPSLD QMFD AEILGFS/TPFQGRLSMM SFILNALTALGFAVISSEGEKQ CLDFTVTVHFFHLLGLLGSNSS PFSPSGG*TLVGLGPKPVVALH SLAVIGEYLCMRTELKEIPLNSA
18733	49101	A	18842	1	818	MAELTVMRFHTEPQGSEGLRLP RISGSKPKQMHVWTWLEPLNGI CNGNTGNAQLLPPGVIFHKYP SHYVTAMLKSLKWPLQTELTS SSGQALWGLVGGGSPHRQAST EKLFEKVPKTAENFPCSELSCF HGENGFL*GVPCFHLRFPVRY AVRGGDFHTAINGTGGKSHPM GKKFEG*ETSSLKHTGPGDLVP WQNA GPNTNGSPVFLTSCTAQ ELSGLDGKPCGVLA KVKEIGM NIVEAMERFGSRNGKTSKKITI A/DCGTTPNKV
18734	49102	A	18843	4	454	
18735	49103	A	18844	1	978	MRWACDFTKLLSSTWTLIQYPE NAMIARWALLADCEPKTKAL RTTEDGIVDAANFEQFLQERIK VNGKVGNLGGGVVTEIKSKSKI TVTSKG/PFNSM*/*GSASFVEK KRLLFE*KLLSSTWTLIQYPENA MIARWALLADCEPKTKALRTT EDGIVDAANFEQFLQERIKVNG KVGNLGGGVVTEIKSKSKITVT SKGHQFYVNLRSFLICGKEKA VGILEEIVLNLIIIFSSIDILTVKG TCSGCGERGFLEIYDEVEDSSYD NHLKDDDPKREGPGAQALST PPCCPLEKRINDQTLIISWSGST NVIEEAGRHSVVQEGWGALGV LRTTLPSLPQTGGAGFVGSHLT DKLMMDGHEVTVDNFFTGR KRNV EHWIGHENFELINHDVVE PLYIEGRAENQLSHTVPGPVDL SDRIVNGYFLSL

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18736	49104	A	18845	167	1440	RDIWLSASAAAMVPPVRKLV/AE GGQKTKQVLRFTLGCTHPIEDG IIDAANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG PFNSM*J*GSASSFVEKKRLLF *KAENLSKKNWNKTRMPTFTTL TQVAPNPITGYTSKGKISTLKR YLAFLCRLCCHGAREKACGEGG QKTKQVLRFTLGCTHPIEDGIID AANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG HFQFYVNLRIISFLICGKEKAVGILE EIVLNLIIIFSSIDILTVKGTCS SERGFFLEICDEVEDSSYDNHLK DEDPKREECRKRDAYAPLKDQ GNAEKRRHNVRKSWPLLSAKL LKIRTNLTGTTEEAEHLHANHIQ VPIKCLSYKLTERRKNGTQKHLH YALILHVKCDRRETSKFTKFG THPLTALFVPRAWGPPSALPE SELAVFLVAYEGNTLLHLFLSG AEQRGNSSSLKERAGRARFQSHQ KLNEQTIPPNDLTKSSVDLQSSF SAVHPNSQPTVWVDMPAHPLS QYLVPARKTVLPWYGNSCPD VIFGSLSDSKLSEGEFALPLKF
18737	49105	C	18846	713	831	
18738	49106	A	18847	2	303	
18739	49107	A	18848	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSPWPWF G
18740	49108	A	18849	229	359	MKWVYCSVTGMGKGQHRMP/ SKG*GWVQRYNRDGIQSPRVLE LF

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18741	49109	A	18850	1	1185	MSTIDDPR LQGRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPR L WLCPPSTQDLANE G REMTILHRH I PDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE R ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPAPTRSTITGSP L /SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFNQGSMLKIQPD TII QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRI SYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPR L W AHRIQL
18742	49110	A	18851	231	416	
18743	49111	B	18852	184	594	

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18744	49112	A	18853	247	2296	PVYLSIFMSCVGENGGSHIENW HSILRNLVNASYTKLQDIKGQ FWNDDESEGDNESEEFLYGVQ GSCAADLYRHPQLDADIEAVK EIYSENSVSIREYGTIDVDIAL HINISFLADEEVSTAWKVLRT PIVLRRLRFFLSQYLDGPDPSIE VFQPSNKEGFGGLGLQKKILGM FTSQQWKHLASNDFLKTQKEKR HSWFKIASGVTIKKFRAGLQHSF SPIPKSPSPFPYS*QDSMAGKGK LGVPELRVGRMLNRSISCTMK NPKVEVFGYPPSPQAGLLCPQH VGLPPPARTSPLVSGHCKNIPTL EYGFVLQIMKYAEQRIPTLNEY CVVCDEQHVFPNGSMLKPAVC TRELCVFSFYTLGVMSGAAEE VATGAEVVDLLVAMCRAALES PRKSIIFEPYPSVVDPTDKTLAF NPKKKNYERLQKALDSVMSA REMTQGSVLEIKKQMDKVWIP UAHPLQWIISSNRSHIVKLPL SRQLKFMHTSHQFLLSPPAK EARFRATKLYGSTFAFHGSHI ENWHSIL/RGNGLVQWHSYTK LQLHGAA YGKGIYLSPISSIFG YSGMGKGQHRMPSKDEL VQR YNRMNTIPQTRSIQS/RFLQSRN LNCIALC/EVITSKDLQKHGEH LGCCPVFRPMSCTRFLPL*YED G/QVGDAQHYIPHGQQRVHERE
18745	49113	C	18854	122	486	
18746	49114	A	18855	1	535	KNAAGNFISPT/ERLSPNAWKTI TDIVLNGTAFVTFLSITTYAET GSGFVVPASAKAGVEAMSKS LAAEWGKYGMRFNVIQPGPIK TKGAFSRLDPTGTFEKEMIGRIP CGRLGTVEELANLAFLCSDY ASWINGAVIKFDGGEEVLSIGEF NDLRKVKTEQWDTIEELIRKTK
18747	49115	A	18856	3	356	
18748	49116	A	18857	1	1581	

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18749	49117	A	18858	2	1242	RRLLGPSRPPIRRPRQRFRQPRELCSFCAPACGPTACGGFRPEFWRI NMKLPAKVFFTLGSRLPCGLAP RRFFSYGKILYQNTALQSKFF SPLQKAMLPNNSFQGVAFITG GGTGLGKGMITLLSSLGAQC IASRKMDVLKATAEQISFSNW EIKVHAIQCDVRDPDMVQNTV SELIKVAGHPNIVINNAAGNFIS PTERLSP*CWKNQ/ITNIV*NGT AFVTLEMGKHLIKAQKGAFA SITTIYA/ETGSGFCRYPASAAQ SRVWEAHGASLLQLEWG*NM GLRIPVDSNQGPIKTKGALYPS GPPTGTGEGKMIQKQKFCGSP WGLVEELRKSPLPAFLCSDYA S WINGAVIKFDGGEEVLISGDF NDLRKVTKEQWDITIEELIRKT KRFLRPLWPSSWLQKRE
18750	49118	A	18859	8	432	NSKLPPVVTSSQMRFMY/DPQT DQHMKNFPEQLPLDEFQKTD KDPANYILHAYLVHSGDNHGG HYVVYLNPKGDGKWCCKFDD VVSRICTKEEAIEHNYGGHDD LSVRHCTNAYMLVYIRESKLS ELQAVTDHDIQQL
18751	49119	A	18860	1	211	
18752	49120	A	18861	1	242	
18753	49121	A	18862	3	733	LVHSRDNHGRHYVVYLNPKGD GKWCCKFDDVVS/QLVERL*EE KRINAQKVDRIRQEVHLYMQA QVASEDQFCGHQGNMDYDEE KVKYTVFKVLKNSSLAEFVQN LSQIMEFPQDQIQ/LWPMQARSN GTRKRPAMDNEADGNKAMIEV SDNENSWITFLETVDLELAASG VTLPKFDKAHDVMMFFLKMYDP KMRSNLNYCGHIYTPISCEIRDLL PVMCNRAFIQDTSLLIYEEVK LNLTERIQD
18754	49122	A	18863	261	659	KHLFYLFT*EITLYPDKHGCV DLLEECKKAVELGEKASGKLR LLEIVSYKIIGVHQEDELLECL PATSRTRFRIEELPLDLLEECKK VELGEKASGKRLRLEIVSYKIIG VHQEDELLECLSPATSRTRF
18755	49123	A	18864	107	407	CVFFADTWSRSEATFQFTVERF SRLSESLSPPCFVRNLPWKIM VMPRFYDPDRPHQK/SGVFFLQR NAESDSTEDSLNDATTNPHIVA FHYWKPNLNSLV

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18756	49124	A	18865	2	3698	YVVRVSLPPPPPAAGRPGAAVAD DAREEEEEAAPPPPPPPRLAA ARPPGSQLPPPAAGEAQAAAD MNHQQQQQQKAGEQQLSEPE DMEMEAGDTPPRITQNPVIN GNVALSDGHNTAEEDMEDDTS WRSEATFQFTVERFSRLSESLS PPCFVRNLPWKIMVMPRFYDPR PHQKISVGFFLQ/CNAESDSTSW SCHAQAVLKIINYRDDEKSFSS RISHLFFHKENDWGFNSFMAW SEVTDPEKGFIDDD
18757	49125	A	18866	16	450	
18758	49126	A	18867	3	26	QSGHSDMRVPAQLGLLLLR LRGARCIDIQTQSPSSLSASVG DRVITTCRASLDIRWLAWFQL KPGIEVKLLIYAATLQSGVPS RFSGSGSGTDFTLTISSLQSEDI MYCQYNNW/SSAPYTFPGIG TKVEIKTKLWAA/PSVLHLPGPS DEAVENLGTAFCLCALLEKTSN PQSRPKSTSGRVDNALPNGGK LPQGECSQKQD*TAWT
18759	49127	A	18868	3	694	
18760	49128	A	18869	47	1712	FPTKMAAVGRVGSFGSSPPGLS STYTGGLPNEIASGNGGAAAG DDEDGQNLWSCILSEVSTRSRS KLPAG*NVLLLGEDGAGKTSLI RKIQGIEEYKKGLEYLYLN VHE*MTGNDQTRCN/VWILDG DLYHKGLLKFSLDVSLKDTL VMLVVDMSKPWTALDSLQKW ASVVREHVDKLKIPPEMKQM EQKLIREFQYVERGEDFPASP QRRNTASQEDKDDSVVLPLGA DTLTHNLGIPVLVVTCKDAIS VLEKEHDYRDEHDFQSHIRK FCLRYGAALIYTSVKENKNIDL VYKYIVQKLYGFPYKIPAVVVE KDAVFIPAGW/DNDKKIGILHE NFQTFKRQEDNFWKDIITKPPV RKVFVHEKEIMAEDD/QVFLMKV QSLLSKSKPP/TTEAGRPVDAIS PKESQGGSPNTKIESVSS*CCQ ACHPIPCWGQKKIDPNMESWE LTSGRAFLGKFSFNSFV*VKRL GSPRRPLVVS GG*PCRVLGGGG SSGLLPASTKKVQAYKPVLDV HAELDRNTR*PVIVS/PTPTISIP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18761	49129	A	18870	3	885	LVCLVRELLGPRFFLKVFLLPT FPGV/PAPVLTATLPFFHPEGR YQVE/YAFKA/I*PGGPLPSLAV RGK/DWA/VIVTQKKST*PNYL DSSVTVTSLFPR*LKNIW/CVMT GMTS*PADSQVQAR/YEA/AN WKIQSMGYEIPVD/MLCKKNCP IFLQVYHTEMLKMKASLR/C/M IFNWVIDEEQGPSRYIRCDPA/G YYCGV*KPTASGS*TKLRSTGF LEKKCKKKKFD/WTF*TRQWET AINTLPLTVPIQLDFKTFQEIEV GVVTVENPKPRILT/EAEIDAQL VAPSKRRD
18762	49130	A	18871	1	471	
18763	49131	A	18872	1	1524	
18764	49132	A	18873	2	719	RPQRAGPVRRAGVMAALLDLAL EGMAVFGFVLFVLVLMHFM AIHYTRLHLNKKATDKQPYSKL PGVSLKPLKGVDPNINNLET FFELDYPKPLFFSVAPMKRIEKT QM**P*CSTY*YEVLLCVQDHD DPAIDVCKKLLGKYPNVDARLF IGGKKVGINPKINNLMPGYEVA KYDLIWCDSGIRGTMEMPMML EQSYDPNVDRDPIYRNNGDADG QHLVLHDFYQQGSGPKCSLINA
18765	49133	A	18874	200	370	
18766	49134	B	18875	323	448	
18767	49135	A	18876	2	421	FVGPDPGDPPESETHKLVVVGG GGVGKSALTQIFQ/ILDTAGQE EFGAMREQYMRAGHGFLLVFA INDRQSFNEVGKLFQILRVKD RDDFFVVLVGNKADLESQRQV PRSEASAFGASHHVAYFEASAK LRLNVDEAFE
18768	49136	A	18877	2	236	
18769	49137	A	18878	1	763	MTPHSALRARGKGGGTGGGSE GSSSGGDMSSGAASGTGRGRPR GGGPGDPPESETHKLVVVGG GGVGKSALTQIFQSYFVSDYD PTIEDSYTKICSVDGIPARLDILD PAG/QEEFGAMREQYMRAG/HT GFLLVFAINDRQEFSTRWGKLF HADFCGFKDRD/DFP/VVVLVGN KADILESQRQVPRSEASAFGAS/ HHVAYFEPSAKMRFNVDEGF* RSWCGVVREIPRNKELPPSPPK CPPGRMGGGCPCVLL

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18770	49138	A	18879	2	403	RFLARRTNSTFNQVVLKRLFMS RTNRPPLSLSRMIRKMKLPGRE NKTA VVVGTTDDVRVQVEPK LKVCALRVTSRARSRLRAGGK ILTF/DEVYRHF GKAPGTPHSHT KPYVRSKGKKFERARGRRASR GYKN
18771	49139	A	18880	1	1006	PKLR*PEPSNRQVLLTRFQIAVH F/LLSRLLQFFRPARSRAFLSRK PKPGPGKKPMALIVEF IGELPTG VHARPPSHVETLCNTFSSQIEW HNLRTDRKGNASALALIGTDT LAGDNCQLLISGADDEQEAHQRL SQWLRDEFFHCDAPLAEVKSD ELEPLPVSLTNLNPQIIRARTVY SGRAGGIQTPISSLDLNALGNLP AAKGVDALQSALENGTLVLK NIEFRLLDSDGATSALAEHRSL AGDTSLREHLLPVGQCANAASS TNHPFVTKKRQQCFVFRQLA NGRNDSGWQTHAFWFRFHQ SRIMKYLYGFTARLKEHQPKLR
18772	49140	A	18881	1	716	VCCEFCRAERRHHGEWTRH KDRKSGGARDPKPEGFL*RC CVKLYRFSGPEEPSNIQRLW LKRLFMSRTNRPSPVPSRDES GKMKASLARGKQDRPVVVG PLT*LMLRVSGRPKTERVVAL RRGSPGPQAALQGGGKIPS LFDQAWPLGLPLKGLLALVPGS SGSLGKGAREGGTRQFSAKAP KETPQKPHQNPYVRISKGRKFE RARGPTGPARGYKKLTLGYSYL
18773	49141	A	18882	3	168	
18774	49142	A	18883	23	2669	
18775	49143	A	18884	279	396	
18776	49144	C	18885	960	1250	
18777	49145	A	18886	52	925	EVLEPRLGVFSNGCFQLSSVM ALGLKCFRMVHPTRFNLYAASI RPVSEVTLKT VHERQHGHRRQY MAYSAVPVRHFATKKAKAG KGQSQTRVNINAALVEDIINLEE VNEEMKSVIEALQG*FQ*GLSI* GPHQDPIDKIAVVT*REALL* T RFSQISMKSQPLNFG*IWASPE CTAAAIKAIRESGMNLPNPEVEG TLIRVPHSPK*PESTEKCWVKL GQTEHQGGPKTLREGFRQTQLN EQAGRNP KD/NSLQEDTIRLTEK QISQMADDTVAELRYHLAVKT KELLG

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18778	49146	A	18887	2	389	DSGSHCHAPPTTARRAFPIPGS KSNMATLKDQLIYNLLKEEHTP QNKITA VRVGDGMACAITIL M/KDYNVTANSKLVITGGARQ QQGESRLNLVQRNVNIFKFIIPN VAKYSPNCKLLIRSNPVDI
18779	49147	B	18888	217	423	
18780	49148	A	18889	27	1217	ARRPTRPPDLIATRRPRPARRCI SRFPFGSKSNYWQPLKDQLIYN LLKEEQTP/QNKITVVGAVG MACAISILMKDLADE/LALVDVI EDKLKG/EMMDLQHGKPFSTR NTKVLSSGKRL*M*LANSKAGS FITGWGHRQQEGKKAVLILVQ AVNVNIFKFIIPNVVKYSPNCK LLIVSNPVDILTYVAWKISGFP KNRVIGISGCNLDASAFR/YLM G/ERLGSSPH*ACHGWGPGWGEH GRFPVLPVMGVGLNVAGVSLE DFWHPDFRTDKD*E/QWKE/VH K/QVVE/SA YEVIKLG/GYTSLG LIGLSCKPD/LAESIMEESFRRV HPS/SSHGHLKGLYGNKRMNVS LSVPCILGQNGISDLVKG/TLTS EGRGPVGSKSADNNSWGSTKK
18781	49149	A	18890	1	264	
18782	49150	A	18891	3	736	
18783	49151	A	18892	81	1065	GKGPVAAFIDQSNIFLTDPKIFL GQWREEPKMPLLLGETEPLKL ERDCRSPVDPWAAASPDALALA CLCHCQDLSSGAFFNRGVLGG VLFPTVEMVIKVFVATSSGSIAI RKKQQEVVGFLEANKIDFKELD IAGDEDNRRWMRENV*REK Q/NGIPLPSQ/NFEE/QYCG/DFD SFSAKKENIISF/LGWAPLPDS KGSEKAEEG/GETEAQKEGSED VGNLPEAQEKNEEEGETATEET NEIAMEGAEGEAEETAEAE EEPGEDDFLGLFMLHFFHFSQ KMEAMKQHSNVLSTNQTELEY FGLKPAHPRVTEIDIMLPDLIR
18784	49152	A	18893	19	445	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18785	49153	A	18894	1	622	QAAWILKARALTEMVYIDEIDV DQEGIAEMMLDENAIAQVPRP GTSLLKPGTNQTGGPSQAVRP TSHSEKPTGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGTASMLTSPDGPFIN*SRL NLTKYSQKPKMAKALPEYIFHH ENDVKTALELAALSTEHSQYK DWVWKVQIEKRYRRLGMYRE AEKQLISAMKQ
18786	49154	A	18895	1	1651	MKAIECKSRTVKDWHNHQKLG EGNKTDSPQPSEGNTANTLIL DFWPLEMIACCWETFPQRLTAE LFMNPTRHWGKYKNQSVGAL RAPLGQGPSRRGLPGRVGRRLQ FTRPPLSWSAGPSLAAPAAMS SEMEPLLLAWSYFRRRKFQLCA DLCTQMLEKSPYDQEPPELVP HQAAWILKARALTEMVYIDEID VDQEGIAEMMLDENAIA/PSSTP ITQAGRPTGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGRLGMYREAEKQFKSAL KQQEMVDTFLYLAKVYVSLDQ PVTALNLFKQGLDKFPGEVTL CGIARIYEEMNMSSAAEYYKE VLKQDNTHVEAICIGSNHFYS DQPEIALRFYRLLQMGIYNGQ LFNNLGLCCFYAQYDMTLTS FERALSLAENEEEAADVWYNL GHVAVGIGDTNLAHQCLRLAV VNSNNHAEAYNNLAVLGDAEG /RHVEQARALLQTASSISTPYV* TAFILQQLIRFGDLQRSYVAA QKSEAAFPDHDVTQHILKQLRQ HFAML
18787	49155	A	18896	2	295	
18788	49156	A	18897	1	4470	MLGLGLLLRLRQGSNAVTRCRP LPVRRREGRRDGSPWRSVVCRY CRCSRQTGASVTTVSLPSSSSP GLDPRGPRQASVKKPAEANPV LRPLVRHGTPYRDSEEGKREGL SRLRAVCRAGPRGRGSFSPRD ARASPLRHLVA AVTTGAASRR QRGARVRQSPSSSRRRAKRLRE CERRSLHAPPAMDASYDGTEV TVVMEIEEAYCYTSPGPPKKK KKYKIHGEKTKKPRSAYLYY YDIYLVQQLPHLPQS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18789	49157	A	18898	89	810	QRRSGCVLRMTIEWETAAIPAG GQRTDPIDKALWGSAGPDDVAR SMNLSLQDYIAS*RRKLCPSYLP VHSCQGGYAAKNLSRKAQICPI VERLNTNSPMMHRRPQQPARK LMTVRIVQA/HAFETTPCSQAE NPLQVLGEPPSINSGPREDST HLGAAGTVRRQAVDVVSPLRRV EPGPFVWVACCTRRLVKGALFPFG TFKTIG*VAWAD/ELI/NACQGA PSNSYCL*EEGRVAFLEHVAKS NR
18790	49158	A	18899	1	365	DTHFK/DSHRTSTAHL/LSLQ GPSPPNPLPLGVPSIGMGLGPRG EGRANPIPTVLKRDQEGLYRS APQPRVTHFPW/DTRAVAGRE RPPRVATLSWREERRREEKDRA WERDLRTYMNLEF
18791	49159	A	18900	203	427	
18792	49160	A	18901	95	482	ALQSPKLWGYFSGRKVFLNYFF SSQQVSEAVVATGSPRAWLTC LILPLPGIIFSVLPKAMSRLITF TPATDPSDLWKDQGGQQPQPEK PESTLDGLAAKLFYEALIGDES SAPDSQRSQTETAPARERKR
18793	49161	A	18902	348	1660	GVTHLFLFCRKRRLRNGIAGRIK GPGWIFFSYCRSLRLWLTGSP LSLALPCLILPLPGIIFLKFSQKAI VPGPLITFTPATDPSDLWK/DG QQQPQPEKPESTLDGAAARAF YEALINGDESSAPDSQRSQT* T WPEERKRKRKRLKAPAAEAL AEGVASGRPVQGRSLEADDPMT YRLTSAQEGDLP*LMRLLEPH EAGGAGGNINARDAFWWTPL MCAARAGQGAASVYLLGPGVA AWVGVCESGRDAAQLAEEA GFPEVARMVRESHGETRSPENR SPTPSLQYCENCDFHFDVSNHR VTSTVHLLSLSQGPQPPLPLGV PISTPRF*ILLGGVGSPPGMGLG PRGEGRANPHQPLIK*GPRKG LG/YKISTPSPEVTHFSPFGIPRA VAGRERPPRVA/TLNWKE/ERR RREEKDRAWERDLRTYMNLEF
18794	49162	C	18903	135	299	

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18795	49163	A	18904	3	2074	ERSRPVALRAAVPRMNPSTPSY PTASLYVGDLPDVTTEAMLYE KFSPAGPILSIRICRDLITSGSSN YAYVNFQHTKDAEHAIDTMNF DVIKGPVVRIMWSQRDPSLRKS GVGNIFVKNI.DKSINNKALEYDT VSAFGNTLSCKVVCDENGSKG YGFVHFETHAEAERAIEKMNG MLLNDRKVFVGRFCSRKERE ELGARAKEFTNVYKNGFEDM DADGRLK\DLFGKF\GPALKCEK LMTDESGSKGFGFVS\FERHE DAQKAVDEMNGKELNGKQIY VGRAQKKV\ERQTELKRKFEQ MKQDRITRYQGVNL\YVKNLD DGUIDE\RLRKEFSPFGTIQLVP KVMDGGLVAAKGLGFVCFSSP E\EATKAVTEMNFRIVATEPLY VALAQRKEERQAHLTNQYYG RGMASVTEAVPNPV\IQPLPGQ APPRFTFMGRFSHRFRNRA\AY Y\PSQIAQTKTKFLRWGTGGGA RT\HPFQNMPCGYCQALAPRP I*GTM\RPASSQ\VPR\VMPTQR\ VANTSNTDKV\PRSCSLQAAA AYVL\RPAPFPQYKYAAGVRNS YQHL\NAQPQVTMQPCCSMV PRVQGTLWTCLPMVGHLPSPSR SKSQMLGWNGLFPSYKPMIHP YSLLVKSLG\MLLEIDNSEL\H MLVESPELFP*RVDEAVAGTTS PPQAKRGLAQKAG*QVPTGV P
18796	49164	A	18905	1	988	MAEDGEEAEFFAALYISGQW PRLRADTDLQRLGSSAMAPSRK FFVGGNWKMNGR\KRRLGELI GTLNAAKV\PADTEVVCAPPTA YIDFARQKLDPKIAVAAQNCY K\ITNAGFTGEISPG\MIKDCGQ PWVV\LGHSERRHVF\GESDEL\I GQKVA\HALAEGLGVIRLHLG RS*DERGSLGIT\EKVVFE\QTKV IRR*T*KDWKQ\VVVLGLMSPV WGLWLLARLATPQQA\QEVHR RSSRGWLKSNVS\DAVASEPPV TIYGGSV\TGATLQRLAKPSP DVGGLPLWGGASLQARNSWDI IQCHNNEPPSHLPLR\CAQAG LKQTQKPK

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18797	49165	A	18906	46	468	TGPTHASAILVPRSLHKMPGE ATETVPA TEQELPQPQAE TGSG TESDS/GKSPASDTYIVFGAEKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSR AVRALKNNS
18798	49166	A	18907	1	360	
18799	49167	A	18908	52	513	QLGPHGHRQPGGPAVPHPRG LVPLPALLPSGPRRGRTQAPR HSGPAL*GHPASDTYIVFGAEKI EDLSQQAQLAAAEKFKVQGEA VSNIQDINTQTPTVQEESEEEV DETGVEVKDIELVMSQANVSR AKAVRALKNNSNDIVNAIMEL
18800	49168	A	18909	1	422	RSLCQTGLRQVVTG/VTKVTIGN LENLFVI/TKPDVYKSPASDTYI VFGAEKIEDLSQQAQLAAAEKF KVQGEAVSNIQENTQTPTVQEE SEEEVDETGVEVKDIELVMSQ ANVSRAKAVRALKNNSNDIVN AIMVSVQAFVP
18801	49169	B	18910	427	529	
18802	49170	A	18911	122	252	
18803	49171	A	18912	44	189	SKLDYKSSKRHRKPVSNFITSF QIWD*FLFFF*LKCQLQPRVFSQ PN
18804	49172	A	18913	2	609	PFLPEALHGNKQCNCNSTSGI CRVSVKVCPPWVHAKLCAPT LMSRDVTLDPAPVKKPCGEGG AKKKKQVLKFTLDCTHPVED GUMDAAQ*ASFKERIKVING KAGNLVGGGVDPSPKGARGKIT VTSEVPFSKRVF*KYL/TPKKY LKNNLR*PGLPRSLPNQPKKEK LPNFRYFQINQGRKEGGRGF KFPLSGKILL
18805	49173	A	18914	107	524	AGTHLPPFLPVAVRQPMALRY PIAVGLKQGPTKVTQEP*ASPR HHVRRGRLTKHTKFVRDMIRE VCGFSPYVRRAMELLKVSKD KIRALKFIKKRVGTHIRAKRRR EELEQQYWPAIEEKLACQERLE PLPLPSPLK
18806	49174	A	18915	39	465	

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18807	49175	A	18916	439	1586	TWGP PARRLPSGSHVPSA/ASSR LPSPHREEPQLQPAPVTITATM SSEAE TQQPPAAP/GAPALSA DTKPGTTGSGAGSGPGGLTSA APAGGDKKVIATKVLGTIVKW FNVNRNGYGFNRNDTKEDV FV HQTAIKKNPQKYLRSVGDGE TVEF DV VEGEKGA E\AANVTG\ PGGV PQGSKYAADRNHYRR YPRRRGPPRHYPQ\NYQNS\ESG EKNRGIGRVLPEGQAQQRRPY\ RRRRFPYYMRRPYG\RRPQY\ NPPVQGEVMEGADNQGA\GEQ GRPV RQNMRYRGYRPR\RRG\ PRQKTA*ERAAMEEDK\ENQGV WDPFRFGSPQ\RRYRRNF\NYR\ RRRPQKTPK\QDGQKRPKAAG SHPA*EFVPLPEAE\QGGAE
18808	49176	A	18917	1	651	MTAFNSGKVDIVAINDPFIDLN YMVYMFLYDSTHGKFHGTVK AENGTLVINGNPIT\IFQQDPS KIKWAP/LAKVIHDNFIIIEGFM TTVHTITATQTINGPSG\INCHVM AAGLSRTSSLSLLA/LAKPVGK VIPELNGKLTGMAFHVPTANVS VADLTCRLEKPA/KYDDIK\NT HSSTFDAGAAIVLKDHSVKLIS WYDNEFGYSNRV\VHMAHNA
18809	49177	A	18918	2	5264	

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18810	49178	A	18919	3	1466	PRSAPRAASWLEDPREVRVSLR SAPPVRQSAIIFCVASRATSLR TPMGKVKVGVNGFGRIGILVT RAAFNNGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHCTVVK AENGKLVINGNPITIFQERDPSK IKWGDAGAAYVVESTGVFNQ PWRKAGAHLQGGAKRVMSAP SG*MPPMFVMGVNHEEV*QTA FKIIISN\ASCTNQLA*QPLAKG*F HDNFG*SWEGLMTTVVPWPSLG NPRKTV\DGPSRG\NCGPWMGR GGFSRNIFLCY\WALPRAVGKG HP*A*TGKLTG\MAFPVSPSTAN VVSGWTLTCRFRKNLPKY\DDI KEGW*KQAFGGAPSKGIPGLQL SHQVVSSDFNSDT\HSFHPFDA GA\GIA\LNDFVKLISWYDNE FGYSNRVVDLIGPHGLQGSKTP WTTEPQARSKKGERPSLLGSP CHTQTPTTLNLPSSQLPCRPLEE GRGLWEPHVMYPSN\KVS LCS TKKKKKKKKK
18811	49179	A	18920	3	364	STVINIHSETSVPDHV/VLVPVQ HPLLE\RCCLGFIAFAYS\VKSRD RKMVG\DV\TGAQ/\ALCLHRQVP EHLGPD\SGHPHDH\WIHPVTGIR LCDSLPY\Y\TDNTGKTGLLVA AHS\QLPHSTVQCW
18812	49180	A	18921	41	696	PDRRWSSLGHHESHCPNHSSLL STVASPPNYEDAQGR*SR/EVA VLGAPHNP\APPTSTV\IHIRQSR PPWPDHV\VWSRVQHP\Q*TPA CLGFIAFAYS\KSRGQGRWLG DVTGAQGLMPPPAKV\PETIWG PDFWGILNDHFV\IHRHPQWLIFP GHGIDQGRHHWRPGALPI/VTC IPRL\PTSIPRPAPRSKSCISPYI LTRFSTMAFNKSARVSGKKKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18813	49181	A	18922	127	1016	SNLILRLNLCFPHLALASSAFDKC QEEETVEKTELLAERRGLTENH PGNPITAGHHEPHCANLLSCQQ RPRLPNYEMLKEEQEVAMLGA PQKPCLECPPIVHPQARPPWP DHVRLGPCFNNPLQ*TTCCPGL SLGISAYFRGSFRGTGKMV/GD VEPGQGLMPPTAQVAP*TSGA PDFLGSLEPHILAHQSSPPKCW VVPGAIDQEAASLRPA/LPVT CUPRTLSSIPSLPPEARELLPFD LYSTYSTFHSSPCPHSRVLHQPF ILTRFSTMAFNKVMFLVKKK KKKKKKV
18814	49182	A	18923	115	652	VSESTDVLSIGRLVTRA/AFNSG KVDIVAINDPFIDLNYMVYMF/ QYDSTHGKFHGTVAENGKLV INGNPITIFQ/ERDPSKIKWGDA GAEVYVVS/TLGVFTTMEKA GGSFCRGGAKRVIHLLPPLA*C PPCFVMGVNHEKDDN/TLKIIS N/ASCTTN/CLAPL/ASTGAAGKC QGQHPEA
18815	49183	A	18924	91	399	
18816	49184	A	18925	26	304	
18817	49185	A	18926	18	203	
18818	49186	A	18927	23	355	
18819	49187	A	18928	1	211	RLLRVRGPPSPRPPGTPAGRQA RHTAPVPARASPSTPPRKLKER APALASPERGSHSAEGRAPQ VPPK
18820	49188	A	18929	2	800	
18821	49189	A	18930	1098	1560	VSCPFTVIIFCYNFCRGGFSTTA VMARAKSMFLMLKKGAGPDF GIRFTASSGWFT*FEDRYALHN VNMNAESVGVADVKAAE/DFGS LIMEEYLP/QFFNMEEPSLFWK QMPERTFVICPKGFFPDHCNKE RPWHFCKRKS/LDTRVATPCG
18822	49190	A	18931	33	211	
18823	49191	A	18932	110	624	CHLSKMLRSPQELARLPGGQRQ LTRW*QRWPLWTIALVLVLWR VKSGP*S*RVSPSP/PVEPVWT LNMAGAPHGNAFPFGGPPHP VPQPGYGCQPLGPYPYPYPPPA PGIPPVNPLAPGMVGPAVIVDK KMQKMKMKAHKKMKHKQKH HKYHKHDKHSSSSSSSSSDSD

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18824	49192	A	18933	2	664	CEPLRISGRPTRPGERSKPRRLR ER*WGWRTHLNMWNPNAQGQ GPNPYPPNIGCPGGSNPAHPPPI NPPFPFGCPPPPGA\PHGNPAFP TGGPPHPVPQMGYPG\CQPLGP YPPYPYPAPG\IPVYNPLAPGM VGTKQLISRQEDCRRKLKAS* KRCHKA\HQKHHK\YHKHGKH FLFFPPSFQAVISGLEYPALDP SLKSHQFCSPK\QMPCCGTGGM
18825	49193	A	18934	3	409	QTQVVIDAG\ALA\VFPSLLTNPK TNIQKEATWTMSNITASR\QDQI QQVYNHGLVPFLVSDLS\KDFF TQKEAVWA\GGTVEQIV\LVH CGIIEPLMNLLPAKDKILVILD AISNIFQAAEKLGETEKLIMIEE CGGV
18826	49194	A	18935	133	400	VLGPHGLGDHLGQFHSCQSRA EPPIAGEDIHAGLDEPDCLKDFD LRI*QLSTQLHAGQEEEDQNV VPETTSEGYTFQVQDGA\PGTFN
18827	49195	A	18936	218	863	
18828	49196	A	18937	106	1879	TQSALQPLIPASPSPWKAQARF GAFSLCLITMSTNENANTPACP VVHRFKNKGKDS\TEMR\RRRIE VNVELRKAKKDDQMLKRERL *AHFLDDATSPLEN\RNNQG/T LLNWSVDDIVK\GINSS\NVENQ LQATQAAR\KLLSREKOPPIDNII RAGLIPKFVSFLGR\TDCSP\IQF ESAWALTNIASGTSGQTKAVV DGGAIAPAFISGWASSHAHISEQ AVWALGNIAGDGSVFRDLVIK YGA\VDPLLALLASS**CQSLAC GYLR\NLTWL\SNLC\RNKNPA PP\DAVEQILPT\LVRL\HHDDP GSRVQDT\CWGYFF\TLLDGSK WNGIGHGWV\VKQGVVPQLVK LLGASELP\IVTPA\LKSP*GNNW HLGTD\EQTVVD\IDAGALA\V FPSLLTNPKTNIQK\EATWTMSN ITAGRQDQIQQV/V*NHGLVPF PLSVFLSKADFKTQKEA\WVAV TNYTSGGTS*TEL\VYL\HCG\II EPLMNLFYCKRLPRIILLILDAN FKISFQPAENL\VIDLEKPSINLE ECGGLRPKLKALPKPMK\MESV YKASVKA*FEKYFPCRGKEGRI KTVVP\ETTSEGYTFSSRMGPP

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18829	49197	A	18938	2	251	KVTNVKDGTTHTQTSLELFMYL NEVAGKHGVRIDIVENRFIGM KSR/GMNVQGDYEPDTATGFIN INSLRLKEYHRFQSKVTVK
18830	49198	A	18939	1	888	MSSKGSVMVLAYSGLNTSCILV WLKEQGYDVTAYLANTGQKE DFEEARKKALKLGAKKVFIEDV SREFVEEFWAAIQSSALYEDH YLLGTSLTRPCIAHKKVETVQR VGAKYEGPWRAPWRMPFYN WFKGRSDLMEYAKQHGPILVT PKNLWSIDKNLMHISYKAGILE NPKNQVPPGLYTKIQDPKAPN TPDLKIQFKKGVPVRVTSVKD GTTHTQTSLELFMYLNEVAGKH GVG/YIAIVENIFTRQRP/PECEF VRPCIAKSQEP/PEGKVQVPVLK GQVYILGWESPLSLYNEELMSV NVQGDYEPIDDTGFININSLRLK EYHCLQSLLEFAGCRLQTLFAW VSPAGAAEQRLLPVPSSGNFIP EGHLPDASWSSPV
18831	49199	A	18940	1	1155	
18832	49200	A	18941	1	993	MSSKGSVVLAYSGLDTSCLV WLKEQGYDVIAVLGQAVKGN QLLPVSLVKRKTTPGAQYANR LSRPVGRFINAAGTTGFPTGKR AGNDQVRFELSCYSLAPQIKEM GSLKVRNE/LQEVSTVMPAST QLPADTQCKLAE/LSAPVKK*T LGLSKT*QTQVMSSQADSMR AWYRN*LFTNPTVRRLGNSPVT GSSLPRLPG/RGIYETPAGTILYH AHLDEAFTMDREVRKIKQGLG LKFAELVYTGAECKLLVASVPE PWRGRGGVEEGRDIKEVQEH GSDSAESSTHPPASRPGEGLA CIFCGKWRHLNTPLCERYPRH SRDHRPH
18833	49201	B	18942	324	1035	

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18834	49202	A	18943	29	1516	KQIPDAGNSRLQSQTLSSKGS VVLA YISGGLDTSCLVWLKEQ GYDVIA YLANIGQKEDFEARK KALKLGAKKVFIEDVSRFEVVE FIWPAIQVAHLYEDRYLPGH LSLPGPCIARKQVGNPSGRGA KYVVPTGATGKGNEQVRFEL SICYSLAPQIKVIAPWRMPEFY NR/FKGRNDLMEYGKATLGFP PVTPKNPWSMDENLMHISYE AGILENPKNOAPPGLYTKTQGP SOKPPTLDILGSSFFKKGVPVE GGPTFKDG/TTHQTFLELFMY LNEVAGKHGRRAVFDI/VENRF IGN*SPRGILRRTPAGHHSFYH AHLDIRGLSPWDRGSCGKIKQG PGAWKFAELVYTGPPAQAP/ CEFCPTGTIAKVPRKPSGKGK QVVRSEFKGPQVYI/LSGREIPHC LLLTMRVLVKHGTCGDYWRP IDGHRGSSKHQIPFKAEGNYHR LPRAKVTQIDPVYNEELGPPQ FSGSPQVTGANCDDNL
18835	49203	A	18944	1	560	GRARTPANMALRVVRSVRALL CSLRALWAPAVPCLPRPWQLG AGAIWTLTGPVLLWVCKFTE KHEWITTENGIGTVGINNFANE ALGDVVYCSLSEVGTKI*TKPS WSLVLLE/SVKAASEL/FSPLSG EVPDFNEALAE/NPGLVTKSRY EDGWLKMTLSNPFRT*MHL MSEEA YEKYK/SIEE
18836	49204	A	18945	3	108	
18837	49205	A	18946	1	845	MAIPGIPYERRLLIMADPRDKA LQDYRKLLLEHKEIDGRLKELR EQLKELTKQYEKSENDLKALQS VGQIVGEVLKQLTEEFIVKAT NG/PRYVVGCRQRQVIELPLTNPE LFQRVGIIPPGCLLYGPPGTGK TLARAVASQLDCNFKVVS IVDKYIGESARLIREMFNYARD HQPCIIIFMDEIDAIDILPNEQA RLDILKIHAGPITKHGEIDYEA VKLSDFGNGADLRNVCTEAGM FAIRADHDFVQEDFMKAVRK VADSKKLESKLDYKPV

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18838	49206	A	18947	3	1181	LLIMADPRDKALQDYRKLLLE HKEIDGRIKELREQLKELTKQY EKSENDLKALQSVGGQIVGEVL KQLTAEKFIVKATNGPRYVVG CRRQL*QKVSCLKPGVTRVALD MTLTLTMMEDILPRVEVDPLVYN MSHEDPGVDVSYSEIGGLSEQI RGI*GEVIGLPLYKPSYFQVRVG IIPPKIGCLLYGPPGTGKNT/LLA RAVASQLDCNFLKVVSISIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGGRRFSEGTSADR EIQRTLMELLNQMDGFDTLHR VKMIMATNRPDTLGPALLRPG RLDRKIHIDLPEQARLDILAKIH AGPITKHGEIDFESNC*SFRMG FNGADLRNVCT*SQACSPIRAD P*FC*YREDFWKA/VRKVA
18839	49207	A	18948	1	220	VNMRDRFGQIMENLRRRQCEL AGVETCKSLES/RIESLEFLDEM */LLEQLM/RHYCLCWATKGGN ELGLKEITY
18840	49208	A	18949	1	645	
18841	49209	A	18950	10	1226	AAPAEPRALPSSVAFSLWLAP SPAARRPRFVPGGAQLPGTVH ARWPARQRRESSITSCSTSSCD ADDEGVRGTCEDASLCKRFV SIGYVWHDPYIQL/VRLSKQR/ KAPEINRGYFARVHGCSVQLIK/ AFLR/KTECHCSNCSNLGGQGM GSPPFWRDKDEDLSSQVNIFEV DFPMIVTRKLHSIKWLAFLPSS PILELHSEDTLQMASDCIC/DGH ILDSKRYAVIGADLRDLSELEE KLKKCNMNTQLPTP*IAECLV VYMTPE/QSANLLKWA/INSFE RAMFYYYQQVNMGDLFGQIMI ENLRGRPV/CDLAGVET/CKSLE SQKERLLS/NGWENKHRPVRT* LEFVPPGLPSKLK*SRIESLE/LD ENWELLEQLIPHYCL/CWATQR RK*SLGLKEITY
18842	49210	A	18951	3	502	TEANTLN*RLQNME/ARLAE/ RKFM/NPFNMPNLYQKLESD/P RTRTLSDPTYRELIEQLRNKPS DLGTLKQDPRIMTTLVLLGVD LGSMDEEEIATPPPLPSSMS LSPAPSCCLGCSPIVGFFIWGS GHVMGRGGGSSSLRSQLSHV YSASPSPIQASWAWL
18843	49211	B	18952	1	1071	

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18844	49212	B	18953	67	1026	
18845	49213	A	18954	2	1910	PVASSMFQKAARAVGNAERTD SIQRCSGPRCAMEQVNELKEKG IKALSVGNIDDALQ/CYSEAI*/R LDPHNHVLVSNRISAA YAKKG DYQKAYEDGCKTVDLKVPDW GKGYSRKA AALEFLYRFEEAK RTYEEGLKHEANNPQLKEGLQ NMEARLAKIRKFMNPFNMPNL YQKLESDPRTITLLSDPTYRELI EQLRNKPSDLGTLKLDPRIMTT LSDLLGVDLGSMDDEEEIATPA PPPPAKKETKPEPMEEDLPENK KQALKEKELGNDAYKKKDFDT ALKHYDKAKELDPTNMTYITN QAAVWFEGDYNKCRELCEK AIEVGRESIREDYRQIAKAYARI GNSYFKEEKYKDSIHFYNKSL AEHRTPDVLKKCQAEKILKEQ ERLAYINPDALAEKNKGNECF QKGDYPQAMKHYTEANKRNP KDAKLIYSIRAACYTKLLEFQL ALKDWEEWYQLEPTFIKGYTR KAAALEAMKDYTKAMDVYQ KALDLDFSCKEAADGYQRCIM AQYNRHDSPEDEVKRRAMADP EVQQFMSDPAIMRFILKQMOK DPAQALSE/HL*RNPLLPREIQKL MDVGSDCCKFGDDLFIAPFLCPS CGKRSWDRGEQAARSGRESST ERKGEQGERRPSSPYIYT
18846	49214	A	18955	2	293	
18847	49215	B	18956	53	182	
18848	49216	A	18957	2	403	
18849	49217	A	18958	3	1646	
18850	49218	A	18959	3	408	
18851	49219	A	18960	1	2458	

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18852	49220	A	18961	88	1511	LWPLGMA SNSSSCPTPGGGHL NGYPVPPYAFFFPMLGGLSPP GALTTLQHQLPVSGYSTPSPATI ETQSSSSEIIVSPSPSPPLPRIYK PCFVCQDKSSGYHYGVSA CEGCKGFRRSIQKNM VYTCHRD KNCIINKVTRNRCQYCR LQKCFE VGMSKESVRNDRNKKKKEVPK PECSesyTLTPevGELIEKVRKA HQAETFPALCQLGKYTTNNSISE QRV\SLDIDLWDKFSELSTKCI KNGEGRQGRLPGFTTLTADQI TLLKVAACLDILILRICTRYTPE AGTP*PSWDGLTLNR\TQMHN A G\FGPLTDLVFVAFANQLPLAE MDD\ARETGLLSAICLICGDRQ DLEQPD RVDMLQEPLLEALKV YVRKRRPSRPHMFPKMLMKIT DLRSISAKGAERVITLKMEIPGS MPPLIQEMLENSEGLDTLSGQP GGGGRDGGGLAPPPG\SCSPSL SPSSNRSSPATHSP

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18853	49221	A	18962	143	2159	LTHSSTWLGRSCNHDRRQMGSKVMSYVVVAGRGTCAQETPIYTIRYLEDKQYGGSLGVDSVLA RLFSGASVLFISGPPFSSYLSGVPPGHPMEDSDMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRVTNLLGGLVAKG*VAHLLKAEATFEASPNLK VTTWATLKMISVPAQRVFPPLG LLLKITPTRWVLKGLKVWVQG PVHISGTAL**LWEGRCQSPED EEDVNRVLFMKPKGRGLKH MFGDLVCSWKLAAIETQSSSE EIVPSPSPPLPRIYKPCFVCQD KSSGYHYGVSACEGCKGFRRS IQKNMYYTCHRDKNCIINKVTR NRCQYCRQLQCFEVGMSKESV RNDNRKKKKEVPKPECSESYTL TPEVGELIEKVRKAHQETFPAL CQLGKYTTNNSSEQRVSLDIDL WDKFSELSTKCIKTVEFAKQLP GFTTLTIADQITLLKAACLDLIL RICTRYTPEQDTMTFSDGLTN RTQMHNAGFGPLTDLVFAFAN QLLPLEMDDAETGLLSAICLCG DRQDLEQPDPRVMDLQEPLEA LKVVYRKRPSRPHMFPMKMLM KITDLRSISAKGAERVITLKMEI PGSMPLIQEMLENSEGLDTLS GQPGGGGRDGGGLAPPGSCSP SLSPSSNRSSPATHSP
18854	49222	A	18963	748	1075	ILPTSLFFLCFVFVFC*DRVLL LSPGWSA VARSWLYCNLSLRG FKFGSCLSLSNWDYRCTPLRS ANFVFL/CRDRVSPCWPTSVSNS *PQ/VIHPPWPKVLGITRV
18855	49223	A	18964	3	674	GRRRLRDAEGPEETVRLWPA ARAAMDAAEVFLAEKELVTII PNFSLDKITLIGGDLGPFNPG/LP VEVPLWL/ARLNLKQRQK/CR LPPPEWMDVEKLEKMRDHE/RK EETFTPMMPKPFITWELTKLL/ NHA/SDNIPKGRTEFRDPGRVF WGHYSY*AKFRVFGDSFVRRQ EAHAKLD*LGPWMGDQQA V TFLTQA/LNPHVTNSTRINPPSPL E STSVLRTS

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18856	49224	A	18965	261	876	VAQKIDMPEYQGEPDEISIQKC QEA VRQVQGPFVLVEDTCLSFN ALGGLPGPYKIV/WFLEKLKPIE GLHQLLA/GFIEDKSAIYALCTF CTQAPGDPSPQPVRLVSGGRDL RGRIRWHPEGCQDFGWDAPCF QPDGVEQTYAEMP*GGRRNA VSHRFRAPCWEPA REYFWQV WPSLTSASWKEGSPRPGDLGK GLAPKPSPHRGRAPP
18857	49225	A	18966	2	181	TAEKMAVLAPLIALVYSVPRLS RWLAQPYLLSALLSAAFLVLR KFPPLCHGLPTQREDGNPCDFD WREVEILMFLSAILMMKNRRSS TK*AHPTRRR
18858	49226	A	18967	5331	5454	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18859	49227	A	18968	5186	5308	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18860	49228	A	18969	4570	4691	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18861	49229	A	18970	5666	5788	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18862	49230	A	18971	5630	5752	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18863	49231	A	18972	224	456	
18864	49232	A	18973	5543	5665	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18865	49233	A	18974	4602	4725	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18866	49234	A	18975	3	313	
18867	49235	A	18976	5480	5602	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18868	49236	A	18977	269	394	
18869	49237	A	18978	5322	5445	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18870	49238	A	18979	164	434	
18871	49239	A	18980	5364	5487	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18872	49240	B	18981	18	1904	
18873	49241	A	18982	1296	1973	RILPGGQQNSSWNFS EDTVISIL NTINEVIAENLEAAKKLRETQGI EKLVLINKSGNRSEKEVRAAAL VLQTIWGYKELRKPLEKEGWK KSDFQVNLNNASRSQSSHSYDD STLPLI*PGPKNQIRNLIGKKFR* AIWDQTONH*IT/DYSTPNERGD HNRTLDRSGDLGDMEPLKGT PLMQDEGQESLEELDVLVLD DEGGQVSYSPMVCPSTPKIVL EEGGS

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18874	49242	A	18983	5844	5967	ETEA*RINDLL*LEFFCNI*QN* P*IRPTVIRSSLK YNT
18875	49243	A	18984	5781	5904	ETEA*RINDLL*LEFFCNI*QN* P*IRPTVIRSSLK YNT
18876	49244	B	18985	1	1477	
18877	49245	A	18986	152	1539	
18878	49246	A	18987	5571	5694	ETEA*RINDLL*LEFFCNI*QN* P*IRPTVIRSSLK YNT
18879	49247	A	18988	4551	4674	ETEA*RINDLL*LEFFCNI*QN* P*IRPTVIRSSLK YNT
18880	49248	A	18989	2	1043	GVRLRYSPIAVVMVGEAGRDL RRRRRAVAVTAEMAVLAPLI/S LSVYSVPRLSRWLAQPPYLLS A\LLSAFLLVRKLPLCHGLP TQ\REDGNPCDFDWR\VEILM FLSAIVMMKNRRSITVEQHIGN IFMFK/SKVANTILFFRLDIRMG LLYITLCIVFLMTCKPP/LSPYM GPEYIKYFNADKPFDEELERDNR VNW/ILLEFFGNWSNDWQSFAP IYADLSLKYNCTGLNFGKVDV GRYTDVSTRYKVSTSLP\TK\QLP TL\ILFQGGGGQCGRPQI*QGK GR/ALFSWDL*GT*KEGQENVI REFNLNELYQRAKLSKAGDNI P\EEQPVASTPTTSDG\ENKDD
18881	49249	A	18990	1	1105	MESTGEDAVNIVEMVTEDLVY RLVVLKSLQVWVSPGDFMGSE GTECMLIGPWVAMGRPSESTLS SHSGPRSPHGTGSPAPRLQAVH VLKCPKSRGVQGGWGLASQCL PEHRHTQLSCDSTQAWPQLCSA QSLRHNRSGGAGAVTSEPAG AGGLPRPRTQGCLGAES/PAG QLHSQQRGGPEEGRLLSDVDHP DLSSSQQRGPEGP/QVAGGWCV SAAWSSTHLAGPQQRWDQEEA RQWEQIPLSLLMMGDPPGYSR APGDGPQPQPRQLQLCLGSSH PTNS*GAELPPVPGSAECAALT VLPSLHLQWVWQVRGPPT*V DPRVGLPGQAPQQRVYSLTHP EQLPVLQVPLLIYRYSSTYNGV
18882	49250	C	18991	105	393	
18883	49251	A	18992	38	230	LYWQKRKGKLLNNLTQGVIVAD PVR*KKFHFKCPSNCPKIHNTES AYA VSFMKYSAHVLGSLYEM
18884	49252	A	18993	487	747	
18885	49253	C	18994	179	649	
18886	49254	A	18995	3	3187	
18887	49255	A	18996	274	423	

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18888	49256	A	18997	1333	2243	RCWRPRTLGFASPPTRPCSPTH APGCEMTPRDWHRVLSFASPLR IEEIFQGYDKTFGLKNKKGAKQ QKFIKAVTHQVKFGQ/SKSTSGS TE*SWKRKLKKDDKKKELQEL NELFKPVVAAQKI/RVKGADPK SVVCAFFKQGQCTKGDCKCKFS HDLTLGEKM/EKRSVYIDARDE ELEKETKSSLIQADTMDNWDE KKLEEVVNKKHGEAEKKKPKT QIVCKHFLAEIENNKYGFVWV CPGGGDICMYRHALLPPGFVLK KDKKKKEKEDEISLEDLIERERS ALGPNVTKITLESFLAWKKRRR
18889	49257	A	18998	1	322	
18890	49258	A	18999	1	822	MGKAKEEVFLADELVHAKTNR NKECDYSVTANSKIVVVTAGV RQQEGESRLNLVQRNVNVFKFI IPQIVKYSPDCIII VVSNPVDILT YVTWKLSGLPKHRVIGSGCNL DSARFRLMAEKLGIHPSSCHG WILGEHGDSDHPGRPRPHVPPI KPPETLPGRDTSSWTSRGAHWR RNTQAAGRREHIDRHQQAIDR WNNVGFGRGGQRRARLLSDLT PTGKPPSSYSVLLAPPSSAEYFH SIKPCIHSPS*CMQRPKEIKN/RD YSVTANSKIVVVTAGVRQQEG ESRLNLVQRNVNVFKFIIPQIVK YSPDCIII VVSNPVDILTYVTWK LSGLPKHRVIGSGCNLDSARFR YLMAEKLGIHPSSCHGWILGEH GDSDHPGRPRPHVPPIKPPETL PGRDTSWTSRGAHWRNTQA AGRREHIDRHQQAIDRWNNVG FGRGGQRRARLLSDLTPTGKPS SYSVLLAPPSSAEYFHSIKPCIH SPSPREIQFFGYTKARNPRVQK

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18891	49259	A	19000	1	1337	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADVFVSARLLQRSP EPSLSWGGRALAEQKAEAGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEEATVPNN KITVVGVGQVGMACAIISLGKS RAMEHTTAGAPYTPRQQTCCQ NMMSLADELALVDVLEDKLG EMMDLQHGSLFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSPOCIIVVSNPRDALTGTW KLSGLPKHRVIGSGCNLDSARF RYLMAEKLGIHPSSCHGWILGE HGDSSVAVWSGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLKGYTNAWGLS VADLIESMLKNLSRIHPVSTMV KGMYGIEVEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKSA DTLWDIQKDKDL
18892	49260	C	19001	462	728	
18893	49261	A	19002	1	1033	MSGSLMFLPKADMPAPMLVQ PAERFDSWVWAGPEQLHSNQL PGDADALLGRNLTKGTRRLC TEEQVKIPQPEPGPPQKLCVLSA AGGQACLVLTFPRWTVWEEPP PPGLVGKACARWWGKGEPD RKAPAPPPPPPGTEKVDQTSE/E RGTLIQRPPAPALPGWVRKTGR P/PPPA/TGRLQQVPLLGASTQPE /PPGRGV/PPGVSPGLGEDVE/N DGMSLSYLAE*PQATSQRAP*G ENTVALSGRLGRNSSSYTCRPA GERNFHPRGGPSSTAALHLRK MPGTPQCEGRRVAPRALPET*M LQPGGTTR*T/PPGPLAFSPSSP TGPQKVKS LGNSSARTILPPKW
18894	49262	A	19003	2	212	
18895	49263	A	19004	1	425	PTRPAAVAEDGGLKKCKISSYC RSQPPARLISGEEHFSSKKCLA WFYEYAGPDEVVGPGEKMEKFC EDIGVEPEN\CDCTEKLQNKDFD LRSQLNDISSFKNIYRYAFDFAR DKDQRLSDIDTAKSMALLGR TWPLFSVY

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18896	49264	A	19005	229	1028	GASKRTGTPFPFPAHPAREGR KMPVKKKRKSPPGVAAVAED GGLKKCKISSYCRSQPPARLISG EEHFSSKKCLAWFYEYAGPDE VVGPEGMEKFCEDIGVEPENII MLVLAWKLEAESMGFFTKEEW VKGWMTSLQCNLHRKGYPNF DFFAAHS*IDISSFKNIYR\AFDF ARDKDQR\SLDNDTAKS\MLAL LLGEGHGPLF\VFYQVPGGQS KYRVMNKD\QWYNVSEFSRTV\ HADLSNYDEDGAWPVL\DEF VEWQKVRQTS
18897	49265	A	19006	3	373	
18898	49266	A	19007	3	418	GRAGSRKWL\LTGSLASTSPSL LSGQGPWAPLQRAMKPPGGES SNL\FGFPEEATPSSRPNRMSSNI FGPTEEPQNLKRTNPPGV*GSG IFDESTPVQTRQHLNPPG\GKTS DIFGSPVTATSR\LAHPNPKPDH VFLM
18899	49267	A	19008	1	684	
18900	49268	A	19009	3	81	
18901	49269	A	19010	1	465	
18902	49270	A	19011	120	344	
18903	49271	A	19012	3	1334	SPOLISSASRPVVRNSRHDATRP VVFQIMSGGSADYNSREHGGPE GMDPDGVIESNWN\EIVDNF/D VTMNLKESLLARGIYAYGFKEP SPIQQA\IIPC\KGY*CGLLKLQ SGTGKTATF/SLISILQPVGRLSF KETQSTSYWAPTREL\AQIQK VILALGDYMGATCHACIG\GTN VRNEMQKLQAEAPHIVVGTGP RVFDM\LNRRYLSPKW\IKMFVL DEADEMLSRGFKD\QIYE\FOKL NTSIQVVFASATMPTDVLEVTK KFMRDP\IRILVKKEELTLEGIKQ FYINVEREEWKLDTLCDLYETL TITQAVIFLNTRRKVDWLTEKM HARDFTVSALHGDM\QOKERDV IMREFRSGSSRVLITTDLLARGI DVQQVSLVINYDLPTNRENYIH RIGRGGRFGRKGVA\INFVTEED KRFLRDIETFYNTTVEEMPMN
18904	49272	A	19013	75	540	

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18905	49273	A	19014	774	1529	RWGERILLTWKRQLQVPPSAL EAGGSSGLEDVLP LLQQADELH RGDEQKGREGFQLLL/TQQAW CMEAGRITFLWRLARAYSDMCE LTEEVSSEKKSVALDGGKEEAEAA LEKGDDE/SLTCHI.WYAGALW SAG*AMRASRRRIQELALTFKE HCGQKPFALQPKTPMAHFLLG RWCYQVSHLSWLEKKTATALL ESPLSATVEDALQSFLKCYREL GKNSEARWWMKLALLELPDVT KEDLAIQKDLELEVLIRD
18906	49274	A	19015	97	452	GTERRTGKLPALLTPNLVQLRR LLFPGIQTI*VPAQGRGHLLQRP AAA/RPRTSAPPAAAAAPPQV EARPP*LQPTRQEEAAELQTAR AGLWELWAGPQSPRDLNSLESI RITCSPTP
18907	49275	A	19016	1299	1800	FWGGRSGTVGYGADMGKFKN NTTNNQS*K*YRNTSRNPDHND *FLKGMDDPKFPKNMHFA*KHN EKGLEKMQDNNMRAEAIKA/L PKPMEVQPRVPKSASRKL/D/LA YTAHPKAGKHARAHIATGLRL CWPKAKAKDQTKAQASASAA APASVLAPAQASKGAQAPMKA LE
18908	49276	A	19017	410	1323	RQEGTLIGVFIPAAAAAAVAA AAAAAAAVAAAAAAV AAAAAAVAAAAVAAAAV AV/GTSFSKPHKLMEKHEKPS KDSREHKSFAKEPSRDHINKSSK ESSKKPKENKPLKEEKIVPKMA FKEPKMSKEPKPDSNLLTITSG QDKKAPSKRPPISDSEELSAKK RKKSSEALFKSFSSAPPLILTCS ADKKQIKDKSHVMGKV KIES ETSEKKKSTLPPFDDIVDPNDS VEENISSKSDSVPGQSPVTNIF TSSSTPTILKSYQLDNDSDQGA QEASDKQIEGYFSGEVPAYRQG ELILVASRQ

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18909	49277	A	19018	91	890	GAERLPEGPGRMVFRRFVEVGRVAYVVSFGPHARK/MWVAIVDVF*SEQGLLVE*PCTQVR/RQAMPFRCMQLN*FHPSRFPNSAQPESMFRQA WQK\ADI\NTK WGSPHDGAKKIEAQRKGGPKDDQIFD\RFKVMEGQKKMREQE*SKE*S*RSFKRAALLEKLSPKKKHLGT*GYCCLLLLLAAAAAAAAAAAAAACCLLACCLKVPSKKRSPAASKKAPAQKVPAQK\ATG\QKAAAPKPAQKGGKAPAKAPAPKASQGESISGNHKK
18910	49278	A	19019	280	1249	SLNEGIMYAQP\VTNTKEVK\WQKVLYERQPFSLDKLW\WDRRLGRSSGKNIHAPENTQY\WGCG*FESSVVIQQLCSVCVFVIR\WYMDEGLLAPHWL\VTGLASSLIGYVFLDLIDGGEGRKKS\QTRWADL*ELP*SFITFTYG\FSPVLKTLTEFCSALTPIYAMSVFMLLRHLIFFDYG\ANAIV\SSTL\LVNMAIFAS\VCWASRL\PRS\LHAFIMVA\FAIQIFCPGGPML\QKKLK\ACT\PRS\YVGVT\LF\AFSAVG\GLLSISAVG\VLL\LLMSISCL\PFY\HFACSLFKENI/HMGPWDEA\EI\KEDLS\PGSL
18911	49279	A	19020	1	310	
18912	49280	A	19021	2	411	
18913	49281	A	19022	374	1275	VLTRLIRKRRRKAQSQRERCRCVLAKDFLAGGVTA AISKMAVAPTE/RVKLLQVQSA SKQITADKQYTGVVDCMVRIPKE/QGVLSLWHIGIQFVHKFAGSLASGGAPGATSLCFVYPL\DFARTRLAADVGKAGAEREFRGLG*PAGLRIFYKSDGK/LRGLYQGF\NVSVQGIHYYRAAYFGIY\DTAKG\MLPDP\QNTHIVISWMIAQT\VTAVARVDFPIPFDTVRRRNE*MQSRAPKELTIHVHQA RFDCWAEGLLRDEGGK\AFFKG\AWVPMLR\RGHVG\AFCALSLYGWKSKEGTHKLIS
18914	49282	A	19023	461	705	TERKKKGILPGNGNGFMSLRRTIRVWRNTPNYLG\TN\AVSP\RDQ*IGKKGVCQRKQAGPCPPSNIQGILEWRK\HR\ISETKP
18915	49283	A	19024	2	408	

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18916	49284	A	19025	1	885	MTQHAGKRDELSELPVIVQDTET VPSVMDGKEYQAGRFARGRLRL QCFRRRRRRRRTRRRRRKEEEE EEEEEEEEEEEEVEEEGKKKEE EGRRRRKKKKKKAEEEEKKK KEEEEKKRRRREPPRPND ARRRRKEEEEGRRRSM/LGKRD SELPVIVQDTETVPSVMDGKEY QAGRFARGRLRLQCFRRRRRR RTRRRRRKEEEEEEEEEEEEE EVEEEGKKKEEGRRRRKKKK KKAEEEEKKKEEEEKKRRR REEPPRPND DARRRRKEEEE GRRRSMKKEEEEEEEEEEEEE EEEEEEEEKKRRRGPAKMM GGFEELRRGLNVGPTMAIFFLQ SAALAPAILYFCPSLKSNSKCN FQFLMFCQLLGRVTIPFLVSQRS RIEVGRHSLSTLNAETAHEL YLGRTEPDECGKTAGLTGLDLK
18917	49285	A	19026	1	378	
18918	49286	A	19027	36	3415	ESAANAQVLAAPSPCSFAFTL SKVNMSLKNPRVNTSALQKIA ADMSNIIENLDTRELHFEGEEV DYDVSPSPDKIQEVYIPFSAIYN TQGFKEPNITQYLSGCPKIAQVL EVERFTSTTRVPSINLYTIELTH GEFKWQVKRKFHFQEFHREL LKYKAFIRIPITRRHTFRQRNV REEPREMPSLPRSSNMIRREEQF LORRKQLEDYLTILKMPMYR NYHATTEFLDISQLSPIHDLGPK GIEGIMMKR
18919	49287	B	19028	37	147	
18920	49288	B	19029	10	264	

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18921	49289	A	19030	3	1255	HASGGRAANMAADRGAVQQQ SQDMMEVDRRVESEESGDEEG KKHSSGIVADLSEQSLKDGEEP GAEDPEEEHELPPVDMETINLAD RDAEDFADLNHYRIGKIEGFEVL EES*RLSCLRQNLKCL\ENLGR ELPESFRELDLYDNQIKKLENLE ALTEILDISFNLLRNIEGVDK LTRLKKLFLVNNKISKIENL\SN LHQLARMLGAGDLNRIRGQFSK YPTTLATNL\ESWFLGKKTITN FQNPGCASPNTVLMSQSNRLT KIEGLQNLVNLRELYFSHNGIE VIEGLENN\NKLTM\LDIASNRIK KI*KISAHLTEL\QEFWDGTTIPL KSWSDLDELEGEPEGALEDSVP WGGNPLARRTPKYRRK\VMLA\ LPSVRQDRCPRSVRFLKSFLGSL MWSLSSEELPSHGVPNPCCS
18922	49290	A	19031	138	564	YREVMVSES*ETPAGARGRPYY FSAPGTA\PAINVHPPPSLSAT PHPPQPQPPPHQHNAKARVAT IRTKRTSNCRIRSRKVRKSPPEK WVGFNRRPKASCSPPGAARV DVGGETERREQAAAPGEMGK WARPGEEYFHS
18923	49291	A	19032	1404	1586	ENESRFSDRNQASAGLGLSDS L*QWIVGNGHATDLWQNCSTS SSGNVHHCFSSSPNGSG
18924	49292	A	19033	187	701	AELAARMLLLLLSIIVLHVAAL VLLFVSTIVSQWIVGNGHATDL WQNCSTSSSGN\VHHCFSSSPNE WLQSCSRGTMDPVDSSFSILSL FLFFCQLFTLTGGG\RFYITGIFQ ILAGLCVMSAAIYTVRHP\EW NLNSGY*RFA*ILAWVAFPL\ ALLSGVIYVILRKRE
18925	49293	A	19034	1	493	
18926	49294	A	19035	105	307	
18927	49295	A	19036	32	302	
18928	49296	B	19037	119	641	
18929	49297	A	19038	496	653	
18930	49298	C	19039	568	747	
18931	49299	A	19040	522	656	ESSQSHGKNFYMGKRIKLSLY WNVWRMLNSKSETTNCPLIRH RLSKRVGAPFLPAVLVLTKITIY QT*KFQIRNHKLPSNKTSAI

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18932	49300	A	19041	111	277	RHVAVVLGDVGRSPRMQYH ALSLAMHGFSVTLGFCNSKPH DELLQNNRIQIVGLTELQSLAV GPRVFQYGVKVVLLQAMYLLW KLMWREPGAYIFLQNPGLPSI AVCVWFVGLCGSKLVIDWHNY GYSIMGLVHGPNNHPLVLLAKW YEKFFGRLSHLNLCTVNTAMRE DLADNWHIRAVTVYDKPASFF KETPLD\RTHRLFTKLTNMHSPF RARSEPDPVTERSAFTERDAG SGLVTRLRERPAALLVSST\SWTE DEDFSI\LALESRV*TTDS\SIG HNLPSLVCVITGKPPREYYSR LIHQKHQFQHQVCTPWLEAEDY PR\ILGSVDLGVCLHTSCSGLDL PMKVVDMMFGCLPVC\AVNFK WQEQNPNLSGDSFTDPLRRKQ CRASC\Q*GPAPGLHEL\VKHEE NGLVFEDSEELAAQLQVLFNSF PDPAGKLNQFRKNLRESQQLR WD*SWG\ATPNPMMSSCRTTE
18933	49301	B	19042	110	2294	
18934	49302	B	19043	81	1538	
18935	49303	A	19044	21	1158	AVVAALPTSSSSRHSLTQKPGS RRLRIESLLPPSSCEIFLIFS\YIFR LCEKPYHQTRSASNV\TNKTDPR SMNS\RVFIGNLNTLV\VKKSDV E\IFS\K\Y\GK\I\VGCSVHKGLCLS VQV\MLMRRNAPGLL*QGE\DG RMI\ALQGVLDINLAAEPK\VN\ REKSSVKRSAAEMYG/SQ*QNT LLRPL\YFSSSFDLDYDFQRDY DRMYSYPARVPPPPPIARAVVP SKRQRVSGNTS\RSGRGFNSKE WNSGVSSKFWKR*KGDDLQ\AI KEELTQINQK\VDSSLLENLEKIE KATGANKQLEMK\ND\KSEEEQ SSSSREGKMRTNVKDG*GGV PDDSAEGGGPTWMNDDNVKS GGMTSWEL\KDDKEKAE\GE DD\RD\SANGGG
18936	49304	B	19045	93	303	
18937	49305	A	19046	1	246	
18938	49306	B	19047	123	487	

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18939	49307	A	19048	584	1664	SGLFLFLFFYSEIFLIFSIFYRLCE KPYHQTRSASNV TNKTDPRSM NSRVFIGNLNTLVVKKSDVEA IFSKYVGKIVG/CSCFIKGFAPFK *C*EEMPRACCSGRRVGRIDLL GQVLDI*PGLAEPK\WNPKEKPG VETILPAGDVRGQ*QNTLLRPL YFSSFDLDYDFQRDY YDRMY SYPARVPPPIIARA VVPSKRQR VSGNTSRRGK\SGFNSKEWNSG VSSKFWRK*KGDDLQ\AIKEEL TQINQKWDLSLENLEKIEKAT GANKQLEMKINDK\SEEQSSSS REGKMRNTNVKDG*GGVPDDSD AEEGGPT\WMNDDNVKSGGMT SWEL\KDDIEKEAEE\GEDDKR QGPMARND
18940	49308	A	19049	158	1001	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCWVDQK\LNSE GMEEARNCGKQKALNFEDFL VFTSVLNR\IPTAR\MLAEELGQ EWVPVSSWRLNERH\YGAL\N GLNREQ\MA\LNHGE\EQVRL\W RRSYNVTPPIIE\SHPY\YQEIY NRPGGIK VCDVPL\DQLPRSES\ LKDVL\ERFLPY\WNERIAPEV\N RGK\TILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPIIL VELD\ENLRAVGPH\QFLGDQEA\I QAAIKKVEDQGKVKQAKK
18941	49309	A	19050	1	521	SASWVGAMASRVLSAYVSRL PARFAP*PRVRMLA VARH\LST ALCSEGQTRLGTLQPALVLA\ QVPW*ELHMLCRQYSDMP\PRL TLEGIQ\DRVRLA*LKTLSDKVD PREAFQ*ILIIFMKDLGLDSLDP KWKIIMALEDEFGFEIP\DI\DA EKLMTPPRKLVDLHCQDKKD
18942	49310	A	19051	1	516	IRALTMIWRRALLAGTRLVWS RSGSAGWLDRAAGLR\DCG\TA ASGMESNTSSSENLA\TAPVNO IQETISDNCVVFISKTSCTM AKKLFHDM\NVN\YKVVELDL LEYGMQFQDASLQK*LVERTV PRIFVNGTFIGGATDTHRLHKE GKLLPLVHQCYLKK\SKRKEFQ
18943	49311	A	19052	825	1080	KRKIHQNFHKLKSLKKAIEKDYS ESGSSVNQYKKIRPTDNVVIKQ YWPGA\VAHTCNSSTSVGQGR WIT*GQEFETSLANVVKPHLY
18944	49312	A	19053	80	429	

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18945	49313	A	19054	3	752	FKNAVGNLAMEGGGIPLET LKESQSRHVLPAFSEVNSLQKS NWGFLTLGLVGTLVAVYAVA TPFVTPALRKVCLPFVPATTK QIENVVKMLRCRRRDPLWDIGS GGRDGIHRLRRKGFTAVGF MEFKPMG*FWVFPYRAWRE GVHGSAKFYISDLWKVTFSSQYS NVVIFGVPMMLQLEKKLERE LEDDARVIACRFPFPHWTPDHV TGKGIDTVWAYDASTFRGREK RPCTSMHFQLPIQA
18946	49314	A	19055	157	829	TWKGDDPKKPRGKMSSYAFFV QTCRGDGHKKKHPDASVNFSEF SKKCSERWKTMSA*/R/EKGKFE DMAKA\DKARYEREMKTYIPP QRGRQKRKFQDSQLHPRRPPSG LLSSSCSEYRPKIK/GEHP/GL/SI GDVAKKLGRDVGINTAAD\DK QPIYEKK\AAKLKEKYEDIA\A YRA/KGKPDAAKKG/VVKAES KKKKEEEEDEDEDEEEEEDE EDEDEDEDDG
18947	49315	A	19056	85	267	GHLSHA WCGTYKPWPSPKEQS RAWKKGDLFPFPF/PLFPTGLK VRGRESF*SVELIRPQG
18948	49316	A	19057	1	1158	
18949	49317	A	19058	452	517	
18950	49318	A	19059	93	1069	YEGVTTSLPELPRGCLVLQEQ ELVQMSGMEATVTIPIWQNKP HGC/SLRSVVRIGTNLPLKPCA RASFETLPNISDLCKRCAPSSL PWL\AWLGLAE*KGSQKARV\ RSDTRPLRHTWKPSPLIVMQRN ASVPNLRGSEERLLALKKPA/L ASPKAALLSCRTS*ATLRTKICK DSGKLMQLRLH*RQISYLQEVQ MSLLPLPCFGSSFHSTTSFCH**/ PSPRRQRWRSLSFHQSPCFVLP ALNVANQNTKLPAVRLKRMTA SLCPRPAALQDMMGILKGLFTG MKQSQDLNRSLLKEEDPAVLIS EVLRRKFALKEEDISRKGN

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18951	49319	A	19060	162	1410	GQASCPPLPGLQQTTPASSYTVQ IQTYAPSSPHPRQGGPGQSSDPR GLRGAIIPRGRQGGV*QQGPRC RPPSPVLPHIPQLSCCGHDGRD PEEGLGILELTLHHAHPWSPN SW*KDSVSPHGEPFAHSEPHSR DQTSMAATTKHEVQPLPQASLS QPSLIGICLDVWLRLRRTTQGS /PQDAAQDSTWERP*DAS/GKP WLL*PGVPTPGPCQAKERKPP FMGNCLP*SRVPWPSRLPEEL/P AMPLAPPVAGEAAGPASSHQSL SPSQDPTPLPGADRREKERGGE EGSSWPQTPLRTHHTTSPPEKQ QQIESPPIRLSSFKTGHLASSGH SYAIKPNSTKAKEVGGQVRVPR SHTIREQRQGRPGEHRRTER DAKPGQGEDHQATVVSQKLGT DRRLIKKQRTSVLSATAES
18952	49320	A	19061	1	340	GSVSGTTLNLQGFWSPPGTS LEPPCPWLDHIFVPWKDVA FGEGVCLPPGAPQPRRICPRR QQPEFQGEETIPERTPADPGV LPPAFPGICLPRRLRAPDPGPA A*AVPPVADA*GSVSGTTLNQ LGFWSPPGTSLEPPCPWLDHI FPVPWKDVAFGEGVCLPPGAP QPRRICPRRQGEFQGEETI PERTPADPGVLPAPFGICLPRR LRAPPDPGPA
18953	49321	A	19062	3	396	IPLASLHLALPGHQRGPPPGRLP SCSSQGTVPPRAGPYQAGCPG TAPAPAAPASAPWSAPQASATG GTAHAAGPGSGGARSLPPARA HPPARCWQGRPLRSLLL*PSSVP ETGGPEKARLVKALSPNTAP
18954	49322	A	19063	563	1269	LEESTGRITHFKATLHCTMSNN LA WGGTKWLQESRVFFHIRRLP SDASAGPGCVYRVVPDGGSQ RPQGAPP*AAQA/GTPRGRPP/P GAPSALLPPPSGTSVGPGLQ QRRPPTGGQEDSPTEPGFWKPR WRSHLATSLATRCTMQGEPA AHPGGRGPAASEERHQRGPPP GGCFAALRYCATPRPDLGRCP GTAPAPAAPASAPWTRLRHQPL AAQLMQPGQVWWGPAASW

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18955	49323	A	19064	1	1158	MELKAKARELREECERLSRCD QLEERVSMENEMNEMKREG KFREKRKRNEQSLQEIWDYVK RPNLHLIGVPESDGENGTLEN TLQDIIQENFPNLRQANIQIEI QRTPTQYSSRRATPRHIIVRITK VEMKEKMLRAAREKGRVPHK GKPIRLTADLSSETLARREW PIFNILKRIFSPQRGGTGGRRM VKLTAEIEQAAQYTSAVRDRE LDLRGYKIPVIENLGATLDQFD AIDFSDNEIRKLDGFLLRLRKT LLVN/NNRIC/VLDFQKVK/LK ERQEA EKMFKGKRG AQLAKDI ARRSKTFNPGAGLPDTKKKG PSPGDVEAIKNAIANASTLAEV ERLKGLLQSGQIPGRERRLGP TDDGEEEMEEDTVTNGS
18956	49324	A	19065	2	431	RKLDGFPLRLRLKTLVNNNRI CRIGEGLDQALPCLTELILTNNS LVELGDLPLASLKSILYSLIR NPVTNKKHYRLYVIYKVPQVR VLDFQKVKLKFNPAGLPTDK KKGGPSPGDVEAIKNAIANAST LAEVERLKGLL
18957	49325	A	19066	92	303	NCFLVFSPARSTVGEFASMSSE ECI*MHVVF/LFPLTLCVVS/LYER QEA EKMFKGKRG AQLAKDIAR RSKT
18958	49326	A	19067	208	293	LLLLWWFPLGPTDDGEEEMEE/ DTVTNGS
18959	49327	A	19068	22	904	ARNPWSHASGWREATGFPQR GGTAGCTMGKLTAEIEQAAQ YTNAVRDRELDLRGYKIPVIEN LGATLDQFDAIDFSDNEIRKLD GFPLRLRLKTLVDTTRICGIGE GLDQAILPCLTELILTNNSLVEL GDLPLASLKSVAIYLYLRNP VTHKKHYRLYAIYKAPHVRL DFQNVKLKERQKAEKMSK GK RGAQLAKDIARRSKTF*FPGA GLPN*PKRKG GP/SLPGDVEAIQ ECP*QNAFNSGLKVERLKGVCC KSGQIPGRERRSGPTDDGEE MEEDTSHQTGS
18960	49328	A	19069	1	395	AINYNEKIYELRVMETKPKDKA VSIIEDCMNVDFDAP/LGYKEPE RQVQHEESTEGEADHSGYAGE/ LGFRAFSGSGNRLDGKKKGVE PSPSPKPGDIKRGIPNYEFKL/ EAGGRFVAFSGEGQSLRKKGR

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18961	49329	A	19070	1	1108	
18962	49330	A	19071	353	693	GSLFLVKRRPEP/QVQHEELTE GEADHSGYAGELGFRFSGSG NRLDGKKEPSPIKPGDIKRGIP NHIEFKLGKTFIRNACPLVKKF EEDEAGGRFVAFSGEGQSLSKK
18963	49331	A	19072	2	1112	RLGAAAAAAGRAVGGVSSL HCPERSGVCQVVSIMFSFNMFD HPIPRVFQNRFTQYRCFSLSM LAGPNDR/SSIGEKEGKIIMPLG PGTKLSRL*HYRIPMLFK\LTNK NSGPHGRHCGVAGSLWA**GA SAYLPHWDDGRTYSLGRKAA WVQGGRSVNLSSGPLISNFQPP SPDFLDITNP\KAVFEN\ALRNF ALS*PPGDV\AINYNEKILRNCV VMETQTPTRPVSHH*SVNH*TV EL*LLPPGATKEPRKDQVQP*G VRTEGESRPHSGYAWKSLGFP RFSRSGSNRLDGGKKGVPEP SPIKPGDIKRGIPNYEFKLGKIT F/VSRNSRPLVKKVEEDEAGGR FVAFSGEGQSLRKKGRKP
18964	49332	A	19073	1	415	SGGGRNRSATGWSVGTMAGIT TIEAVKRKIQLVQQQADDAEER AERLQREVEGERRARE/RGMK VIENRALKDEEKMELEIQLKE AKHIAEEADRYEEVARKLVII EGDLERTEEPSLSWQESKCSLE EELKNVT
18965	49333	A	19074	1	421	
18966	49334	A	19075	3	388	
18967	49335	A	19076	1	1332	
18968	49336	A	19077	49	483	
18969	49337	A	19078	227	1030	AVSVWGTMAGITTIEAVKRKIQ VLQQQADDAEERA\ERSQREFR EERRARE/QA\EA\VASLN\RRIQ VLVEEEL\DRAQERLGHCPCKKL *RS*KKLADESERY*RLFEN\R ALKRLKEKIGTSREIPTSCKPKH HCRKEAD\RYEEV\ARKLGDH LKEDLERTE\ERA\ELAESRC*EI DEQIRLIDQNLQCLSA\EDKYS QKEDK\WEEEMKILTDNLKEAE THAELAERSVAKLEKTIDDLED KLCKTKEHLCTQRMLDQTLT DLNEM
18970	49338	A	19079	50	864	
18971	49339	A	19080	1	1014	

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18972	49340	A	19081	1	1650	MGFHHVVGQAALLLTSGFQSQT QELQKFLFLFLVYVTTIVGN LLIMVTVTFDCRLHTPMYFLLR NLALIDLCTSTVSPKMLVDL HETKTISYQGCMAQIFFHLLG GGTVFFLSVMAYDRYIAISQPL RYVTIMNTQLCVGLVVAWV GGFVHSIVQLALILPLFCGPNIL DNFYCDVPQVRLACTDTSLL FLMISNSGLVHWFLLLSYTV ILVMLRSHSGKARRKAASTCTT HIIVSMIFIPCIYIYTWFPFPL MDKAVSISYVTMTPLNPMIY TLRNQDMKAAMRRLGKCLKG PAVA VGP GPGDAEAAAEER RVKVSLLPYSVDALVSDKKPPK EASVPVAKSASSGATLRLLLP GHGAREAHSPGLIKPFETASV KWENSQDGAAWMQEPC*YSP PPRHK\HKTNPKPRTAFTTSQLL ALEGKLLQKQYLSIAEGADFSS SPNL TETQVKILFQNRRAKTKR LQSELEKLKMAAKPMLPSSFS LPFPISPLQAASIYAASYPFHRP VLPPIPVGLYATPVGYGMYHLS
18973	49341	B	19082	62	440	
18974	49342	A	19083	1	902	METEALMPGLGVAVAGAQVTL GFLALETQLPFTGHKRILRFFS SPRDPPHVPSKGLKRKGWARR GRTFALREAEPQRLPSLSRAFG TLARPYARLVPRGNPVVPFPLA GSAEAAARAATCERQARTCPM PGVTVKDQVNOQEFVRLAAFL KKS*VGKLVPEWVDTVKLA KHKELAPYDENWFFYTRAAS AQAPCTIRGGAGVGSMTKIY GRQRN/GVMP/SHFS/RGKS/VA RRVPPKWRG*KMVEKGTKN GPQNLTPSRDKRDFGTEFAGQV AAANKALEQIHCFGLIKLAHS
18975	49343	A	19084	1	673	AGPDAAESERVPEGAAPGAGP SRPLEPRPRASGRPGHGRCLGV TVKIDVNOQEVRLHWAFLS KSLR/LRVS*TVPEWLDTVQAG QAQKSLLPYDENWFFYHAELAS TAIRHL YHPSALGVGSMTKIY GGTSETASMPKLSARGFQEI WARRVLQSPGRGLKMGGRD QELRAAKLDTFGQKRFWDRI RRNRLAVAYKEALEQTMAGV NKLQPFVKKKKK

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18976	49344	A	19085	1	427	HPVRFVHRGPH/VDFSLEVV QWYELVFTASMEIYGSVA VDKLDNSRSILKRRYYRQHCTLE LSYIKDLVVHSDLSVILDNS PGAYRSHPDNAPIKSWFSDPSD TALLNLLPMLDALRFTADVRSV LSRNLHQHRL
18977	49345	A	19086	2	832	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTVFAAALWS FFIYLLRRQIRTVIQQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLHSHHDGVLRLPTVRPGT PPDFILKVVIDKHPVRFVHKRP HVDFFLEVVVSQWYELVVFITA SMIEIYGSAGRLNWDNSRSIL *GGRYRQHCTLELGSYIKDP LLWFHSDLSIGIVLIDNSPGAYR SHPGYGR/DNAIPIKSWVSVTP ANTAILNLLPMLDALRFTADVRSV LSRNLHQHRLW
18978	49346	C	19087	69	206	
18979	49347	A	19088	312	438	
18980	49348	A	19089	635	826	QWISLWKCYKPEESGGQYLIFL KKSIFNDEFHVKNP*AS*GKEK* TPLQTSNC*GILSPGPLP
18981	49349	C	19090	1	390	
18982	49350	A	19091	336	551	ARPLGSLASAPFPAPM*NVYPT GP*YNADCPNVTAPVCA SNHG TFQNECFVCVEQREFHYRKFE KYGKCD
18983	49351	A	19092	76	309	KGRFVIALTFTT*HSNLEKSCSK ICKIKNKS LVCKHQ LAKSIQSPS **WNGMNN*FTTLFICCHNTEK TFIHCGKRP
18984	49352	A	19093	181	447	NKYQTDNIKLSNDNL TIGHQTG NTTAHC/RYIMLFRSFQQA/IT ILS*YRKNYPLWKETLTKRMWQ RHREKVGSEKVNIDKILFHHW
18985	49353	B	19094	1	639	
18986	49354	A	19095	1	160	NLHSQLMWNQIR*LTSV*LEL LCKNPNRVATRDQLLCLSGHL GMGRILEGG
18987	49355	A	19096	2	456	YKNTITDYEHLYAHKLENLEE MNKRRASTICTETIPKKLRRRD SSLTHSMRARRLSVDVQPDORS RGPSECTIFRAGVPEGTRGALW LPHFQTESDPGSKPATLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSCITST

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18988	49356	A	19097	138	1193	LCFFGQHAPIYCSLRHSLLSVTR PASLICCLPGSHRYLEFVLLLLK HHR LHEDLNHCPIGSRSGRDVR SQTTEQEHVIAMPFPLRKLEPL HSGLYSHSCSRYLAWLALA TGGAARSPPAISILQPQEPSVTPS DTQRACGRSTEAFESKEQKASV RVETTVSFSCSIKVDGGLLEPKR ADTGWHGHHCRPASITPAGWV PARYLLYVFFSRQCVLMSVCGP QYTRGEIPGAVLKEECLPSLLT GRFDLSGRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGV LW LPHFQTESDPGSKPATLLVIHP DELQIYVRTKCT/RMFI AALFI IAKT*KQPRYPSANTLLL
18989	49357	A	19098	3	247	
18990	49358	A	19099	1	1048	MQLKPMELNPEVSARCTATRRR RGRGRGSRVADRFGAFFFAFA FQMLNKVLSRLGVAGQWRVF DVVLGLEEESLGSPAPACALP ACLFLPTAQHENFRKKQIEEL KGQEVSPKVYFMKQTIGNSCG TIGLIHVAQ*SKTNLGFEDGS VLKQFLSETKKNVPLKDRACK FIEKNEAIQAA\HECRGTRKGQ CRVDDK\WNHFHYSG*PTVDGP PSMNLGD/RMPFPRGPMAPSQ GDTLLEGRFPRSCRRISPRREQR RSPASSARGFSCKGSLNALWGG TWLISPLSPQHENILPPHASLKC FSTCETQAVLLFCQTRPSQPHP RHLSTSRVHSCPLGHCGVSFRW
18991	49359	A	19100	57	450	VGDCLTSRGMWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPRLAP/RGLHC SA/ASVSSEQS LVPSPPPEPRQR/PPGGERDKASF LQTVQKFADTSVVDSGHIDFIY LALRKMREYGVGERDLAVYNQL LNIFP
18992	49360	B	19101	307	390	

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18993	49361	A	19102	431	1267	SGTRITSTAARTSRTWRS*TPLL ACTPRPCGSAKLATATSRTCIRP *SPSATQTLTVTKVPLPKDSTG AADPPQPHIV/GAQGMVYVTPG IQSPDQQAALARHNPAPRVFVE GPFSLWLRNKCYYHILRADLL PPEEREVEETPEEWNLYYPMQL DLEYVRSWGDNYEFDINEGKE QHVFI/LCSSGEC*ILRRQNVR LLDW/LAGKALTSTPCAPKITC VPLALPTPYCSGQNLNSSCSMT SVSDHLSVPVPTLLSTISKAHGTP PPNTKVTVKTVTRQ
18994	49362	B	19103	49	691	
18995	49363	A	19104	89	95	VGDCLTSRGMSSVQATLLARG LCRAWGGTCGAAL/SQEPPLSLR SLASLPRGLHCSAAHSSEQSL VPSPPPEPRQRAHQGSWCPLR/VP VLGGQAGLGERGQGRAFL/LD GCRNLRITTSVRKRGPV/VDLFY LALRKMREYGVVERG/DLAVYN QLLNIFPKVEVFRPNIIQIRIFVHY PRQCEGIAVLEQMENHGVMP NKETEFLLIQIFGRKSYPMCLKLV RLKLWFRPFMNVNPFVPRDLP QDPVELAMFGLRHMEPDLSAR VTIYQVPLPKDSTGASKIPPKPH IVGI/QRSPDQARPLARHNPSR PVFVVEGPFSLWLRNKCVCV/Y HILRVADLLPPEERVRA*SKACV GAGEWAGTTLRVHGRGWRE TERALASDPACTPHLG/EEVEET PEEWNLYYPMQLDLEYVRSWGD DNYEFDINEVEEGPVFAMCMA GAHDQVATMAKWIQGLQETNP TLAQIPRGLSAFAGSTRKLQTS SAGLEPP/HCPRTTKEEDNLQ RQSRAS*SPCAGIRAQQDRA GLESAAGRVSR

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18996	49364	A	19105	1	1199	EFGALRRTRLGSSFFRRRDSSA MESYDVIANQPVVINDGSGVIK AGFAGDQIPKYCFPNYVGRPKH VVRVMAGALEGDIFIGPKAAEHR GLLSIRYPMEHGIVKDWNDME RIWQYVYSKDQLQTFSEHPVL LTEAPLNPRKNRERAAEVFFET FNVPALFISMQAVLSLYATGRT TGVVLDSGDGVTHAVPIYEGFA MPHSIMRIDIAGRDVSRFLRLYL RKEGYDFHSSEFEIVKAIKERA CYL/SINPQKDETLETEKAQYYL PDG/STIETGPSRFRAPELLFRPD LIGEESEGIHEVLVFAIQKSDMD LRRTLFSNIVLSGGSTLFGFGGD RLLC/VKKLAPKDGRIRISAPQ ERLYSTWIGGSILASLDTFFKKM WWSKKEYEEDGARSIRKTF
18997	49365	A	19106	1	3288	MPSSGGDQSPPPPPPPAAAASD EEEEDDGEAEDAAPAESPTPQI QQRFDLCSRLNMDEAARAEA WDSYRSMSESYTL/EGSGLWLP RGLFGHPGCTGLLLLRSGCV RSQPSDRACR*EK'CHSSHLEFF NKMKKWEDMANLPPHFRERTE RLERNFTVSAVIFKKYEPIFQDI FKYPQEEQPRQQRGRKQRROP CTVSEIFHFCVWLFYAKGNFP MISDDLNSYHLLLCALDLVY GNALQCSNRKELV
18998	49366	A	19107	56	3552	GPAAQGCAMPSSGGDQSPPPPP PPAAAASDEEEEDDGEAEDAAP /PAESPTPQIQQRFDLCSRLNM DEAAARAEAWDSYRSMSESYTL EGNDLHLWALCALYVACRKSV TVSKGTVEGNYVSLTRILKCSE QSLIEFFNKMKKWEDMANLPP HFRERTERLERNFTVSAVIFKK YEPIFQDIFKYPQEEQPRQQRGR KQRROPCTVS*NFISFCVWLFIC AKGNFPH*LSDDLNSYHLLLG ALDLVYGNALQCS

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18999	49367	A	19108	1	1193	GRRRRFWWRKRIGGGGGGMA MPAEAPWMASFFNGFLSLPPG WLLLPSPDRNPPLQPSSRPPLC VRMWMNAFTPLISLFFWASLV SSGARRLHPIQPQPCREQAPMP APGAARSVAASMSDCTVAGP CTGSHTPCHSTSDSQSP/CGGVG SSLVV*AERSCAQCRMSPRKGH VCCCCCCCCCCCC/SCCCYCHYC CCYCCCCCCCCCCCCCCCCC CCCCCCCCCCCCCYCCRCYCCC CCYCCCCCCCCCCCCCCCCC CC*HYCCCCCCC/GCCCCRYC CCCRYRRCYFCFCCCCCYCY CCC*RTAHAWPSMNKSQCVLP/ CICKVPLGR LAVTTGCPGFG*G GCWEDCMFFPAKGPSIRLEQWFS TTAILLPSGPGDFWQYLGTLLV VTTREEVLES GG
19000	49368	A	19109	1	762	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLFLRLPL FADRVPKASQKIFVALS/TGEKG FWL*GVPCFHLRFP/GFYVSRGG DFHTAINGTG/KSILWGENLK DENFRLKHTGPGILSMANAGP NTNGSPVFLTSCTA/KTEWLDG K/HVVFG/KVKEGMNIVEAMER SLGPRMGKT/SNKFTIADCGQL RIKFDLVFYL
19001	49369	A	19110	95	240	LHSEITVCL*GSEHHFFENGTYI PHRSCHDPLEARAEDFL
19002	49370	A	19111	1	1644	
19003	49371	A	19112	237	632	AIGFPSYSSMQLVNIFGLLNLFSI ISSFRHQG*HS*ELPYPLEPGA EDFLR*GPIAGHGHTGSQPFPC RVSEA/CGSHLVNSSRAALKRW AGV*RKIWPRGSPETPRNLKDL SVLEYENTPDTSGKKALED

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19004	49372	A	19113	274	2704	GISVLHGCGYRFQPRGMAAPGP FSEKPVPGCDAGDLQTPALSSW TQTFIISHEQGIKFLNQRWSCWS KERNHGHCRVRGHVTAACQCDL FGNGLKHNLDLHHDRNDASK NVKKSTNYGKMSFYTYCECTP TGEKLWDHNQHRKIIGYPASS QDQKIYSGEKSYECAEFGKSFT WKSQFKVHLKVPTGEKLYVCI ECGRAFVQKPEFITHQKTHMRE KPYKCNCEGKSFFQVSSLFRHH RIHTGEKLYECSECGKGFPYNS DLSIHEKIHTGERHHECTDCGK AFTQKSTLKIHKIHTGERSYIC IECGQAFIQKTQLIAHRRHSGE KPYECNCGKSFISKSQLQVHQ RVHTRVPKYICTEYGVFSNNS NLITHEKIQSREKSSICTCGKA FTYRSELIIHQRIHTGEKPYECS DCGRAFTQKSALTIVHQRIHTGE KSYICMCKGLAFIRKAHLITHQI IHTGEKPYKCGHCGKLFTSKSQ LHVHKKRIHTGEKPYMCNCKGK AFTNRSNLITHQKTHTGIEKIFI CSKCGKAFTQRSDLITHQRIHT GEKPYECNTCGKAFTQKSNLNI HQKIHTGERQYECHECGKAFN QKSILIVHQKIHTGEKPYVCTEC GRAFIRKSNFITHQRIHTGEKPY ECSDCGKSFTSKSQMTVEH*AV HSG*KPYVCAECGKAFFSRSN LSKHQKTHTGKPYICSECGKT
19005	49373	A	19114	3	180	
19006	49374	A	19115	95	433	PVLRTHPGPQSLPRVPGVPCGG LLEPLSRAEVSRLGLRRDLG GMAPSGSSTVFLLALTIASTW ALTPHTYLTKHDVERLKAASLDR PFTNLSEAFYSIVGLSSLAGQVP
19007	49375	A	19116	196	706	ISISNETKDLLAAVSEDSVTOI YHAVAALSFGFLPLASQEALSA LTARLSKEETVLATVQALQTAS HLSQQAADLRISVIEEDLVARL DELGGVYLVQEEGLAETALFV AATYKLMMDHVGTPEISKEDQV IQLMNAIFSKKNFEVSLSEAFSV ASAAA VLSHNRHYH

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19008	49376	A	19117	275	2192	MVVSPQGSSTVFLALTIASTW ALTPTHYLTKHDVERLKASLDR PFTKRLCFSWFTTCVTT*H*LFP TV*KACTYIRSKSLPCLPQIAKT CSKTLCLPILS*ISISNETKDILL AAVSEDSSTVQIYHA VAALSGF GQVREGVSG*NKCTHSLGFYSL PSRTVDSGSCISFLL.LLDIQHISV LLWQDLVARDELGGVYLQFE EGLETSTAVALPPSQQRKRNSCI SHFFQDQVIQLMNAIFSKKNFE SLSEAFSVASAAAVLSHNRHPR NKILCSCSLCCNK*FFIYFQLQV TNVLSQPLTQATVVKLLFVISM T/RT*VLAKPIVILNRDVFELNF MNVKFYICM*IPEHPIDLATVF SIFL*LRVKISTDIFSACSQRYPD PL*RLTYASFRVTYPAKAKGT FIADRDSMLGPGRILKLSDERL YYSSI*TFVRLHNQKTGQEVVF VAEPDNKNVYKFELDTSEKIE FDSANII*VSPSTSLPCFYRLSL FF*ADVVINPGIHGCPYWEHGIL KSSWCVFQRHLFREPEKSWHG LCCFPFK*CLFNLFPIIQTWILT FLNRRASLCFI*LDVMTPLLAA MLGLMYVYWTQLNMFQTLKS LAILG/SVTFLAGN/RMLAQQA
19009	49377	A	19118	3	413	PRKEAPSTFLSQ/NLFTPKQEIQ/ HLFREPEKR/PPTVV/SNTFTALI LSPALLLFALWIRIGANVSNFT FGLPSTNIFHWGHAAMLG/LSM YVY*TTQAQPCSQTLVWPWILG QCDRFLAGQSGMLAQRATVQE NQHN
19010	49378	A	19119	2	535	GRVDPKAKKEAPAP*SLPKPA *AFKGRKAVLKGVHSPQKA GRSRTSTPPFRAGRKTADSR PAPKILRKSRVPGGNKLD/HYA /IHKFPADH*SASAVKKIEDNNT L/VFIVD/VLKANKH/QKQGCE RSLYDIDVGQGGHPWIRPD/GE KKAYCSTWILDYDGGGMFAN QNWGSI

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19011	49379	A	19120	159	801	GAAGRRRLPEGEDEASAWR RLARCLMPKKNRIAYELLFKE GVVMVAKKDVMMPKHPLEAE VKNVPQPFMVMKGGHAGLSSPR GIYVKGTSFAWRHFLTGLTQ* GVSQYSPWITLHLAPGRFVPCP PLRPVARPRRMGRPRPKKVLG GVEATWRGFHKRGEVDRGYL TRRSACQQLGADKKSRGWGL GSSNPNFQFRG/GF/GCGRGQ/PP
19012	49380	A	19121	334	989	EPPAETLPVAARDPTGLSPTVLS SHKHEKFQQRHFVPLVGYPIA SSGASPEVRQRRITFFRFRPGES LCGDMKLLTHNLLSSHVPAGG SLPFSGGMVGRGPVLA*TP/LAL QATEGRICPVEINPQLRGRVMI P*KWKWSIAFLAEGPDKLAV*1 PGARKPG*GDMRENEEFS*GP WHHLACWEVGSD*EGTLQVP GNLGRYFSPFKPRGSPNMLAE
19013	49381	C	19122	61	177	
19014	49382	A	19123	4	191	
19015	49383	A	19124	1902	2187	
19016	49384	A	19125	55	340	GELVLKALSAFIRAFRCPAEGS DPVGRAADPSPAPRGISQGGG ACGSPFLPGPITESLPLPGLGSG SELPSLYLVSGIYGGVRRGPPA RLEA
19017	49385	A	19126	1228	2447	TSQGSSPPAHIGRWSSNHKKGL GSSFSQSCCKAEALVKNAWPPT QA*VSICCFEQDLGRGQKQKGS GGKWQKTAESREAVTECPACY RAARCRAAGDRGLRAEGAAAG HTASPSAYRVRGGRGHRDMHS ASARLSHPGETNMLGLAEPSV TSH*SHPFQGS*LP*QAGP**EM/ PLPPSARDSSDLCSG/SPSHDLLP LPNTVIFWGPSSPDWQPLPLSP FCVSQAAGSPCSPLLQGLEPGGI STSCPPGAPYIDFGAVSGAGQS AAQRGAHFPAAMAERPSAGTS GSSGISGAIATVVSWSVAEGEQ AVKCLAEGSTRTQTQPSRRAPS RGCPAGAPPGRGAAPPQAPPA PAAGGGRGPPAAPRAPRAPRPQ QGAPRPVSPCRGTGAAPPPTLV WGLSSEAG

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19018	49386	A	19127	164	563	CEAALKGDSGGSPWPDEKPKPE GVKTENNDHINLKVDGAEMVT VVQFKIKRHTPL**T*LKAYL* TDRGLSMRQIRFRI*PGNPIN*K QTHLHQLGNGRIEDYNLMCFQ QARPGGVYLLKKGCTCFYSKNS VSF
19019	49387	B	19128	166	426	
19020	49388	C	19129	76	285	
19021	49389	A	19130	3	179	
19022	49390	A	19131	93	172	
19023	49391	A	19132	1	2742	
19024	49392	A	19133	1287	2571	ILRQWLLASPEEKTGRPALASG SAETLSWLRAQGREPRGPA*SA VGAEHRTRTAPGSDPRCGILPS GRSPSP/PARLFLASVPATI*AM TPSPTRLPAWPPPCRG/PDASPE VVRKGGKAGQPRGSPQWRSG AEEIVEVGLLPLTPRALLFPQVP TALPAVYHFLAACEGICPHSCA APSMIELWDFLIQHQPEKAVA CTTTHIPGLRISALNKHRAWGG TDDDDVAASEMPLGAAGAEPW D/VE*LLPAALKIPTGHTATTSW GAGP*SPQGSCKG/SGVSGGAT ADLLAPTAGVGTSTRACGGGT QFMSEGA PGVMNNGSPDWSST QFMSEGA PGVMNNGSPDWSSN LSQPQPMHLLYLTTWFLERPM CCPDTTALTQTLPVPFSFYPVCT SHIRQNPHLHFLAPSPHYTTA CSFEPQRFEQQQDLL
19025	49393	A	19134	31	202	ILITYIILKLNQADFSTP*FMSHLI VSSRIILCTEKNWFHFPFHF*D*Q QTFCTLQFL
19026	49394	A	19135	410	867	LLTLSRTTPLMSLGFPGIPKMIN RPRQSSPIKLQNSSLSNLLFFQ EDSSTLDSGLERSQGLDSTGGG EDICRVWTAS*SFICLSDPQKVQ IQSAFNRKAWCLVILVVVSHSS TPFSWQKVMKWIKISFRVFAA GQGLLGGYSNPRYSFSF

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19027	49395	A	19136	111	743	VITILTPMLADRTTRRIERPPKKK GTTSLGQRKWLTTQDWPSVYP VAHPFKPSAVPLPVRMGYVP KKGRAHGDRGNLELLKISQFF WILTSCSNLKSTCEALKDFCTG VGQPHWDSGRKKMLKKHFSN WKFGQHLDLDFHQGPSGSGNP RARVVVLKSKAFV*/*HDHAK KTLITLVGERYCKTPDVLTIKQ NRWPLRSQITIMPVYL
19028	49396	A	19137	305	2291	YLDAEKMGGQKASQQLALKDSK EVPVCEVVSEAVHAAQKLKE YLGFEYPPSKLCPAANTLNEIFL IHFITFCQEKGVDEWLTTTKMT KHQAFLFGADWIWTFWGSNKQ IKLQLAVQTLQMSSPPPVESKP CDLSNPESRVEESSWKSRFDK LEEFCLIGEDCLGLFIIFGMPG KPKDIRGVVLDVSKSQMVRSH LPGGKAVAQFVLETEDEVFIKE LLRNCLSKKDLREGGASPGSL RLAAGPPLTLNAACPLRLAVL AAMAAAAALPAWLSLQSRARTL RAFSTAVYSATPVPTPSLRVDD LHLTEIVGMLDSVLTPESSGK YRFISGEVLCRITGCTGVRVEA KDLFGGCCSNPNEMVMTWIKVI VEKEVWLYLRYILKALPPRTEK MAVDQDWPSVYPVAAPFKPSA VPLPVRMGYPVK*GVPMAKEG NLELLKIPNHLTLTPAIIKHCE ALKDFCTEWPALDSDEKCEK HFPIEDSTDYVSSGPSVRNPRA RVVVLRVKLSSLNDDHAKKK LIKLVGERYCKTTDVLTIKTR CPLRRQNYDYAVYLLTVLYHE SWE/TEE WGKK*D*SRHGKSIY GENSSSERKYPGERFSR*KLLR KNMGN*LKKSS/CGTKEIEEYK KSVVSLKNEEENENSISQYKES
19029	49397	A	19138	3	233	
19030	49398	A	19139	1	256	
19031	49399	C	19140	5	114	
19032	49400	A	19141	8	444	TTDKEQ*EL*LLLDTE*GSYTK CHTDSLRY*TSSTSAEDRDDSL LRRSGSYRDL*E*IPYSCRLDKD DSTDICIKLYEQILAE*NDKLKAQ LHDTNMELTDLKLQLEKATQR QERFADRSLEMEKRERTALQR RISEMEERLQM
19033	49401	A	19142	1	287	

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19034	49402	A	19143	211	346	
19035	49403	A	19144	175	3381	EDPAAGEGMMKADAKHKRNE QLKRWIGSETDLEPPVVKRQKT KVKFDDGAVFLAACSSGDTDE VLKLLHRGADINYANVDG/LSH ALHQAACIDDNVDMAKLLVDNG ANINQPVNDGWIPLHAAPSCGY LDIAEFLNGQGAHVGAVNSEG DTPLDIAEEEEAMEELLQNEVNR QGVDEIARKEEERIMLRDARQ WLNNSGHINDVRHAKSGGTALH VAAAKGYTEVLKLLIQAG/YDV NIKDYDGWTPPLHA/AAH/W
19036	49404	A	19145	1	2406	
19037	49405	A	19146	1154	1365	
19038	49406	A	19147	1	293	MGVSVLDFSHSDKCEVASRFAS GMPEPTNIVLPKLEVADTLGGC TTIPESDLEERSVEQDSTELFTN HRHLTAETPR/PW*RLDGLHKQ VSPLOQVSE
19039	49407	A	19148	3	1290	VSQATDVEVGTDLVPSVTVKV TLQNRVILQKAKLSVYVQPPLE LTCDDTFEFMNRNPDGIPRVQ CKFRLPLKLCPLPGQPSKTASHK ITIDTNKSPVLSLLSPFGFASQSD DDQVNVMGFHFLLGGARITVLA SKTSQRYRIQSEQFEDLWLITNE LILRLQEYFEKQGVKDFACFSFS GSIPLQEYFELIDHIFELRNGE KLEELLSERAVQFRAIQRLLA RFKDKTPAPLQHLDTLLDGTYK QVIALADAVEENQGNLFQSFT LKSAATHLVILLIALWQKLSADQ VAILEAAFLPLQEDTQELGWEE TVDAAIHLLKTCLSKSSKEQA LNLNSQLNIPKDTSQLKKHITLL CDRLSKGGRLCLSTDAAAPQT MVMPGGCTTIPESDL*ERSVEQ DSTELFTNHRHLTVETPRPEVSP
19040	49408	A	19149	48	642	WNSALREPLNGADMAKSKN HTTNQSRKWPARNGIKKPRSP KIRILLKGVAPPSFLARNMRFQ ESPNKKGP*RLQANKLPRA ATLPRAIKALVKPQGGSPKIP KGVSSRKLDSTCLTFAQPQALG SVARCP*LPRGPRLCPPKAKAK AKAKPRPKPRPRAKDQNGPG LQPQASVPAQAPKRTQAP/TKA SE

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19041	49409	A	19150	1953	2447	WTPQYMDTEYKNGPWMMKEK KVWLDLP/NETNEIPNANFRQQIR KLIKDGLILRHRKPVTVHSLAQ CWKSTLARRKGRHLGIESKKID RHMVHSLYLKLGKGNVFKHKRI LTEHSHKLKADKARKKPLADQ AEARGSKTKKARKLREHLQT KKEEIIKTLSQEEKAKK
19042	49410	A	19151	1	693	MAVMEKLYVWVNREESYASLR VHLPCNATTTMSMLSLQKRLAS SVLRCCGKKVWLDLPKETSEIAN ANSHQWIRKLIKDLIIHKPVT HS/*ARYR/KNTLACQKGRHMG I*KATANARMPEKIMWMR/RM RILCOLLRRCDSKKIDHHMYH RRYHESKKVDRHMYHSLYLKV KGNVFNKRILMEHIHNLKAD KACKLLADQAEATRRSKIEAR KHREHLQAKKEEIIKTLV
19043	49411	A	19152	34	280	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSRY/ RYHSLYLKVKGNVFNKRILM EHIHKLKADKARKKLLA
19044	49412	A	19153	2	625	HEAMSMRLQLKRLASSVLRG KKK/VWLDPNETNEIANANSRQ QIRKLKDGIIIRKPVTVHSLRL CRKNTLAR/*KGRHMGIGKRK VPANA/RMP/KEVTWMRENE FCRRLASEDTRES/KKIDRPHV TALYL/VEKGNVFNKRIL/ME HIHKLKADKARKKLLAD/QAE ARRSKTEATKREERLP/ARPR KREII*TLSEETTKK
19045	49413	C	19154	154	291	
19046	49414	A	19155	3	253	
19047	49415	A	19156	2	474	FKDKQNKPTGFGALSGIEGRVAI HYINPPNP*V*LCQLADFTGLFL TKEDLHEPLSFSKADNFTFKCH RSNGTNTSAPQDIYAVNGIAFH PVHGTALTAVGSDGRFSFWDKD ARTKLKTSQQLDQPIACCFFNH NGNFI/AYASSYDWSKGHEFYN PQKKK

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19048	49416	A	19157	97	1728	IRGFFRGSGQSFYRRLKEASGS WDFCPRSWPSSLRLRSGSQTP TLLLPAGVFRSETPMFKMSLF GTTSRFGTSGTIMGSA TVDNH NPIEGY*K*HSFSLMDSIG/CSCL FSPPTLPGNFLIAGSW/ANDVRC WAEVQDSGQTIPKAQQMHTGP VL/DVCWE/SDGGSKVFT/ASCG WKTAKMWDLRQ*PRRLQIAQH DAPV/KTIHW/KAPNYSCVMTG SWDKTLKFWDTRSSNPMML QLP/ERCYCADVIYPMVAVATA VERGLIVLIQL/ERIQPSEFRRIESP L/KHQH/RCAIF/KDKQNKPTG F/ALESIQGRVAIHYNPPNPA/K DTFTFK/CHRSNGTNTSAPQ/DI YAVNGH/AFHPV/HGHPNCNGD LDGRFSFWD/DARTKLKNFRE QLDQPLSSAC/CFNH/NGKHILP YASISYDWVWKGH/EFYNPIQK KKFTFFPA*MQAEELKAPGNKE VVAGR TLGSAQSLFLLHSGLI VRIWAPNLVGVVSPWTFMEFP PGENDVIVQQLSRRPAGDLP VFSIPTGLVAEVFSGKPKGGLK
19049	49417	A	19158	1	1254	
19050	49418	A	19159	1	921	
19051	49419	A	19160	1	1386	
19052	49420	A	19161	49	731	

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19053	49421	A	19162	61	1533	PLKAKMGKEKTHINIVVIGHV DSGKSTTTGHLIYKCGGIDKRTI EKFEKEAAEMGKDSFKFAWV LDKLKAERERGITTIDISLWKFET SKYYVTIIDAPGHRDFIKNMITG VTSQADCAVLIVAAAGVGEFEAG ISKNGQVTRHALLAYTLGVVE QLIVGVNKM DSTEPYSSQKRY EEMWLEWSTFNIKKIWLQPPPTQ *HFVPISWFGIDNMLEPSA/N MPWFKGWKVKTRKDGNSAGTT LLEALDCILPPTRTDKPLR/LPL QGVHKLGGIGTVSSAPMETGF SNPGMVVTFAP/STVTTTESKIL SKMHP*SFEVKLLPGDQCGPSM SKNVFCQGMFRRGKRLLDGQQ KMTPPNGKAAAGLHWSRVLUN HPRPK*GAGPMPLYLDC/HTGS HLHAKFAELKEKIDRR/SGKKL EDGLKFLKSGDAAIVDIVPG/RP MCVESFSDYPLGRFAVRDMR QTVAVGV/ISKAVDKKGCWEL GKVTKVWPRKAPEG
19054	49422	A	19163	1	514	EFGTRAKKEAPAPP*SLKPKRK AFKGPRKAVLKGVS/HSHQKEE DPARSPTFPGGPKTLRLRRQPK YPRKSRVPGETRLDHLCLSNF PLTH*VLPMKKIEDNNTLVFV DVKANKH/QIKQAVKKLY/D/D VAKVNT/LWIRPDGEK/KAYVR L/APDLPIAFGMFANKIWGFI
19055	49423	A	19164	433	1015	GLISLNDMASRGAS*PTGPDGT NKICQFKLSTSGSPAVCKSSLV LRFVKGQVHEFQESTIGAAFLT QTVCLDDTTEKFEIWDTAGQE RYHSLAPMYRYGAQAIVVY DITNEESFARAKNWVKELQRQ ASPNIIVIALSGNKADLANRAV DFQAEQSYADDNLSLFMETS NTSMNVNEIFMAIGKINISF
19056	49424	B	19165	1	2511	
19057	49425	A	19166	2	360	

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19058	49426	A	19167	125	211	FRPGSPRQPRAQPISAPDCTRA MVGRRALIVLAHSERTSFNYA MKEAAAAALKKKGWVVE/S DLYAMNFNPIISRKIDITGKLE GPLRTFQYPGRSLFLAYKIEGHL EP/EIICGLNKKKLEAADLVIFQ FPLAVGLEVPAILKGWFEPVH KESFA*HFTAGHVMDKGPFFG VKKAVAFPFITGGISGSMYSC QGINHGDMNVILWPVQSGVLPF LGLPKSLDPQLTYSIWPLPAR RPEFSILEGWKKRLE/NIWDET PLYFAPSSLFDLNFQAGFLMK KEVQDEEENKKFGLSVGHHL GKSIPDINQIQS*KRECTVHYT RDSHKVAAGAAQLTESLVPAR VAPATTS PANQRPLHQSHGR
19059	49427	A	19168	2	331	WVDSQQKRYVPVKGDHVGIV TAKSGDIFKVDVGGSEPAISY LSFEGATKRNRPNVQVGDLYG QFVVANKDMEPEMVCIDSCGR ANGMGVIGQDGLLFKVTGLIR
19060	49428	A	19169	145	350	QEFHLSSEPSIRLGRSLYHIHHL FASKKVLD*QWLDQSL*VCSW EHMRRSQ*GIFSRLANRGFQNG DC

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19061	49429	A	19170	1	1863	MAVAIRLSADTQWEDSPGKSIL ELHMSCTKIPERCEADKKESTS SWCTRKIRFRMDLEKECKVLLS GGGSRMRGSKQGDGVGRWSSP RVGLPSSQTLRLRPPTDFHIAPL SKARQHLLVSVSVLFCFSAPLD VQPLKVLDECQNQRACHLLVN SRVFGPDLCPGSSKYLLVSFKC QPKQMFTQQGPGPVLSIGETQV STSSVTRSSSPVGPDIHCEFHIN MCKIPDELKKNKTVCEQDELKL HCHESKFLNIYSATYGRRTQER DICSSKAERLPPFVFTRYCYFLY APVSSIANPVKGCFFHLGKKQDC LSYSALQVLSRRCYGKQRCKII VNNHHFGSPCLPGVKKYLTVT YACATLSSMGPIAEVPPPEAKK VTLSLSDSSSGRMEDGRDLDTG HTEVPVTSGLFIRVLNKKQNF LQIRCSFGRGPGKL RHCWAGA. AIALGTEYILVKGDQVTGIVTA KSGDIFRVDVGGSEPVSLSYLS FEGATKRNRPNVQVGDLYGQF VVANKDMEPEMVCIDSCGRAN GMGVIGQDGLLFKVTGLN*E SLLASQICE/ISIQEVGKLLPLEI VFGMNGRIWG*GQKTHPSQTLI LA/NI/LACEHMTSDQRKTDLP
19062	49430	B	19171	29	82	
19063	49431	A	19172	1	427	

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19064	49432	A	19173	1	1548	MTMAAAAVVARGAGARAATA AALRGGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSYASQKK TFEINPRHPLJRDMLLRKKEDED DKTVLDDLAVLVFETATLRSGYL LPDTKAYGDRJERMLRLSLNID PDAKVEEEPEEPEETAEDITE DTEPDEDEEMDVGTDEEETG KESDDPMAYIHFTAEGETFKS ILFVPTSAPRGLFDEYGSKKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVYIRKKLVKTLDMIK KIA DDKYNDTFWKEFGTNIKLG VIEDHSNRTRLAKLSRFQSSHH PTDITSLDQYVERMKEKQDKIY FMAGSSRKEASSPFVERLLKK GYEVIYLTPEVDEYCIQALPEFD GKRFPQVAKEGVKFDESEKTK ESREAVEKEFEPLLNW MKDKA LKDKI*K/ALWVSSAALTESPV LLVAQPVRDWS/GQHWERIMK AQAYQTGKDISTNYYA
19065	49433	A	19174	37	266	WADRAAGGVRILTQGCVGGG GSCDRRGLETSPARTPVRLWV LG\CCVLLTFGSV/READDEV VDGTVEEDLG*KYEKDQVTD EVDVQEEEAQLDGLNASQIRE LAREKSENFPPQAEVNRMIETLF IQFHCKNKKEIFLERLISNSSCAL DRLSLISLT DENALSGNEELTV K\KCDKEKNLLHVQHTGVGM TREELVKNLGTIA\KSGTKRVF *TKRPEA/QEDGPSQPS*IDWPS LGVRF
19066	49434	A	19175	233	664	RAPEQSSGVSAAEQERVNAG WPCSVAPTCPSPRAEPARCT* GKEEGG/CEDSDRADSGSPFQE PRYPSSGFFPIPQASFFPCPLLVL GIRGHSTLQYRGQEHHLVFTG RCLLDVPTLLVLVVSXKSPNAA RDQPARYPGRPL

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19067	49435	A	19176	1	672	MAEAGPKPQRTLMWAWESVL SQRKPREAGRLSEGCVKATGTP GFGWQARPDQKEHRLDGRVID PKDRHGLVKDTEPRLNFQSLCG GLNPEATEEKIREYLASLGRRR PVKKVLEKKFHTVSGS/KCGPQ VPPSWSETYRTRA*SGDQLGTP AAPNPRWPME*EQEIEAQRSA HSGARAPWPPWPPDPGPPGNGP GPKFMVSLSCWNISSLRAGLLY AGCGCSP
19068	49436	A	19177	3	684	RHASARKKYNPPSWFHRGLPPP EDQEDEMVSSELE/PITLTPSSA LKPSDRMTMSSLGERACCRDY QRLGLGTLSSSLSRKSEPFRRIS PVNRMYAICRSYPGLLIVPQSV QDNALQVRSRCYRQNRFPVVC WRSGRSKAVLLRSGGLHGKGV VGLFKAQNAPSPGQSQADSSSL EQEKYLQAVVSSMPRYADASG RNTLSGFSASHMGSHGKWGSV RTSGRSSGLG
19069	49437	A	19178	1	341	
19070	49438	A	19179	1	3710	MVSGARAAAAAAAAAAAAER TRGVPGHPDSTGRLP AHQQQLQ RGLLFRQLGITNVL SLVCATLM EHEVLF LRSYQQLTDACRSLL ALLFPLRYSFYVPIPAQLLEA LSTPTPFJIGVNAAFQAEQELL DVIVADLDGETVTIPECVHIPPL LEPLQSQTHSVLRMVLDPELEL VDLAFPPPM/HDKELRLFHQLL QGYLWCLHVVICHPPEVIRFH KAAFLGQCGLVEDNFLMNVLE GMAFALFVLECCGPV
19071	49439	A	19180	1	303	
19072	49440	A	19181	14	942	TKLTGSRG*LA*NPCM/HNNCE SCVDLLFVRGAGNCPECGTPLR KSNFRVQLFEDPTV/DKEVEIRK KVLKIYNKREEDFP SLREYNDF LEEVEEIVFNLTNNVDLNTKK KMEIYQKENKDVIQKNKLKLT REQEELEEALEVERQENEQRRL FIQKEEQQLQILKRKNKQAFLD ELESSDLPVALLLAQH KDRSTQ LEMQLEKPKPKVPTFTSGIKM SVGITLCPAEHEFTFNDERSFNLS SSWSKFNKPPSTLPFKVLDEER LVELKVNTLITKLVPFAISPCS EAIQDHPAILLAYKKT PFWRLQ
19073	49441	B	19182	49	456	

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19074	49442	B	19183	53	333	
19075	49443	A	19184	2	208	VYPELQITNVVEANQPVTIQNW CKRGRKQCKTIPHL*FPYRCLG EPAGRGAGVDWGPGLGRKRG CSC
19076	49444	B	19185	51	300	
19077	49445	B	19186	148	3568	
19078	49446	A	19187	1	3411	
19079	49447	A	19188	2	2416	NSRGAACAGPRETAAVAARAE QGRGGSHSHSALGAPRRVAM LPGLALLLLAAWTARALEVPT DGNAGLLAEPQIAMFCGRLLNM HMNVQNGKWDSDPSGTCTCID TKEGILQYCEVYPELQITNVV EANQPVTIQNWCKRGRKQCKT HPHFVIPYRCLVGEFVSDALLV PDKCKFLHQERMDVCETHLHW HTVAKETCSEKSTNLHDYGML LPCGIDKFRGVEFVCCPLAEE DNVDSADAEEDDSVWVWAG ADTDYADGSEDKVVEVAEEEE VAEVEEEEEAD*LTRTDEDGDE VEEEA\EEPYQEATERTTSIATT TTTTTESVEEVVREVCSEAET GAVPSNDLPLVL*CD*REVCPI LRRMWRQPEQL*HRRVLHGRV WQR\PTTAASTPDA\VDKYLET PGDENEHAHFQKAKERLEAKH RERMSQVMREWEAE\ROAK NLPKADKKA\IQHFQ\EKVESL *QEAANE\RQQLVETHMARVE AMLNDRRLALENYITALQAV PPRPRHVFNMLKKYVRAEQKD RQHTLK\HFEHVRMVDPKKAAQ IRSQVMTHLRVIYERMNQLSL LYNVPAVAEEIQDEVELLOKE QNYSDDVLANMISEPRISYGND ALMPSLTETKTTVELLPVNGEF SLDDLQPWHSFGADSVPANTE NEVE\PDARPAADRLTTRPG

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19080	49448	A	19189	1	2355	MKSIFTSEISSVLIFVNPEGRVVSFLGSGRREHAEEARAGPRETAAVAARAEQGRGGSHSSALGAPRRVAMLPLGALLLLAAWTVWAL\EVPTDGNAGLLAEPQIAMFCGRI.NMHHMNVQNVKWDSDPSVGTKTCIDTKEGILQYCEVYPELQITNVVEANQPVVTIQNWCKRGRKIQCKTHPHFVPIPRCLVGEFVSDALLVDPKCKFLHQERMGCFAETHLHWHTAAKETLQ*RRSTNLHDYGMLLPCGIDKLRGVEFVCCPLAESDNVDSADAEEEDSDVWVGWGGADTDYADGSEDKVV EVAEEEEVAEVEEEEADDEDDEDGDEVVEEAAKEPYEEATERTTSIATTTTTTTESVEEVVRVPTTAASTPDADVCKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEAAERQAKN\LPKADKKAVFQHFPAEKVESLEQEAANERQQLVETHMARVEAMLNDPRRLALEWNYNTALQAVIPPRPRHVF\NMLKKYVRARTEGLVSTSL*HF EHV\MVDPKKAQIRSQVM\THLRVIYERMNQSLSLLYNVPAVAEEIQDEVDELLQKDANYS**RLWPTMISEPRI\SYG\NDAL\MPSLTETKTTRGSSVPVNEE\FSLD\DL\EPVHFFW\W\TSVPANTENEVE\VPDARPAADRGLTTR\PGSLTNIKTEEISE\VKMDAEFRHDS
19081	49449	A	19190	103	463	PLLYAMSTGKRWLSFGSMIPPV AICASNKRIPWPFSMSSLFMAW NKEMMFVPSGSLYPVTARSADRSFSLNSMPTRPILL*ASSTGNLKL LTGSTIKPVAAWASSNSRAVPGRTKPIFMAAS
19082	49450	A	19191	1	182	
19083	49451	A	19192	3	437	MVHAEISDEGFFLSAPIALTOQWLNIPKTRRTFCKKCGKHQPHKIVTQYKKGKDS\LYAQGKRRYDRKQSGYGGQN*KPIFRKKAKTTKKIVLKALSALSPTCRSKSKCWLFKR\CKHF*TGEEIRKRGQVDPVLKCHLLFMEGH
19084	49452	C	19193	341	421	

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19085	49453	A	19194	15	1066	VLA ^T VEASVIGGQKREMNMG SIVREGFMEEAGPRIGFNL ^S FFI QSTVTGSSSVG ^T QLQPLSLPPA TAGQEP ^R GTG ^L PLGSHNSCPAPE PVSYGR ^L NDPPATTHPGSFTRF HSKPLTSSCWDSEMEGCVSNL MVCN ^L ASFLNVSTN ^P CAFFPW YFY ^L YLLLL*AGWSPLHIAASAG RDEIVKALLGKGGVLNVY ^T NT DRFLHC ^L LLSSPSFQIAV ^M LLLEG GAN ^P DAKDHYEATAMHRAAA KGNLLARNPNHYIELV ^V INWSL VVPDFR ^H LACDEERV ^E EAKLL VSQ ^G AS ^I YIENKEEK ^T PLQV\AK GGLG ^F *YSREWVGRFK ^L QGFIL YFVLLCLLSPVSYKLMYLCTRH
19086	49454	A	19195	1597	1923	
19087	49455	A	19196	551	747	
19088	49456	A	19197	1059	1296	
19089	49457	B	19198	1	1281	
19090	49458	A	19199	3	565	LPGRLLLLNFRQRRQIDRPSMN DTRNLSRTVRKFHAPTRPTSEEN KWVIDVLPAGRP ^T VP*DQKFR EK\LA\KMYQAPH ^P DVILVFGF\ RT\HFGGGKTTGFG\MIYDSPWI MQRKNEP\K ^H RLAR\HGLYEKK KDLKKATEKERQEP ^E LKKVQ ^G GLAKGPLLGAGQKEEMKCLAV ELEIGSQPKELKV ^L Q
19091	49459	A	19200	2	476	

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19092	49460	A	19201	1	2448	M R G S I L K E C G S K E R A S Q V D L E Y S R G N T A S F A M C F H D R A R I M K G S Q R S R K L T G G E G R E E G E R V E N K D F L D L H G Q I Q V R L V V K T A S L L S R V T Y I A E V E G R E T D A G W R N E L Q V G R L D S G P D I L V V S I S T D H T L V D T H L E A V G G H S H E F P Y F K N H L A C H V E S E L Q R D R N G H R D A G W R N M R H G I T D K E M Q D S Q G S S D N H V L G S I R S W S A R A A P A I P G L P E E A F V E M S T E G G F G G T S R S D A Q Q S L K S F W L R P R F I T E L T L R A W I H T E D N N C R T Y V A M A I T K F D Q L D F L I D I V L R D E L K P P K C Q E E V L Q S V T P A E P V Q Y Y F T L A Q Q P T A / V Q V Q G Q Q Q G Q T T A S S M T T M Q P G Q I I I A Q L Q Q G Q T T P V T T Q V G E G Q Q V Q I V Q A Q P G Q Q A Q * A Q S G T G W T V Q G Q I Q T L A T S A Q P I T Q T E V Q Q R Q Q * F S Q F T D G Q Q L Y Q I Q V S I P A G Q D L A Q P M F I Q S A N Q P S D G Q A P R S H E V I A A A P A A R R E R E R E L A G R G P C P P P A G N V R A L K S R R C L P G E R R E R A R K K K P E G G A A A S E R G E T D S H P G A S G Q G P R D S G R V P L G M W S R R G L G V S R A P L H L L I G V S T S F P L P L T P L I P T T A V V N P L K P L K N R I K A P H R R M P L V P G G S Q N L G T V R A R I S T R Q S H A E P S T D N E R V L S M T Q D I H S I F L N L K N I T W I C T L Q S C G F L L S N L C K D I V H K A G S G E A R T R W S P R A Q A G T H E D
19093	49461	C	19202	124	369	
19094	49462	B	19203	739	870	
19095	49463	C	19204	787	969	
19096	49464	A	19205	101	331	
19097	49465	A	19206	137	415	
19098	49466	A	19207	86	221	
19099	49467	A	19208	1	1347	
19100	49468	A	19209	120	899	F G A R G N L K K A Y S T R S K M A E L N T H V N V K E K I Y A V R S V V P N K S N N E I V L V L Q Q F D F N V D K A V Q A F V D G S A I Q V L K E W N M T G K K K N N K R K R S K S K Q H Q G N K I D A K D K V E R P D A C P L Q P P P Q I Q N G P M N G C E K D S S T D S A N E K P A L I P R E K K I S I L E E P S K A L R G V T G P N I E K S A K D L Q R C T V S L T R Y R V M I K E E V D S S V K K I T A A F A E L H N C I I D K E A S L M A E M D K G I E E A M E I L T A R Q R K A E A L K R L T D L A S Q M A E

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19101	49469	A	19210	211	2150	ADTKPERGVSSAVFASGSEGRRLGCVLLSSSETRLLSGTLWIPRAYSTRSKMAELNTHVNVKEKJY AARSVVPNKSNEIVLVQQQFDNVDKAVQAFVDGSAIQVLKEWNMTGNKNKYKRIRSKSKQHQQNKDAKDKVERPEAGLPQPQPPQIQNGPMNGCEKDDSSSDSA NIEKPALIPREKKISILEEPSKALRGVTEGNRLQQKLSLGGNPKPIHGTTTSDGLQWSAEQPCNPSKPKAKTSPVKSNTPAAHLEIKPDELAAKRGPNIEKSS/VKDLQRL/CTVFF*LEYRVMN*RERKWDSSGERRSKLPFAE\LNCHIEQKEV\SLMGRKWD*SLKEGRPWEILDWLVRKSKKKLRLTDLGQSRMAEMQLGPKLRAEIKHFVSEAVNYDEELGKSCPGFSCDIEQLKAQIHALPGKITHPKNNYFLKELPCSSLLPLLNAARSKPLGKTEVTFSRKSSSTHNKPSSEGAANPKMVSSLPSTADPSHQTM PANKQNGSSNQRRRFNPQ\YHN\NRLN\GPAKSGQSGNEAEPLGKGNSRHGTQEGQPH/NRFGFRPKNKGRCQKIQEASLGIEGPPRAPAHFLKRPRAKGSHAADTFGRA RAFSGVS/GSVRGSCNLFPTRI EVSTDAAVLSVPGCDRWVA
19102	49470	A	19211	93	180	
19103	49471	A	19212	3	39	
19104	49472	B	19213	1	888	
19105	49473	A	19214	863	1509	GCAGPCLVNQMFTSSILCKSHCHSLVSNQGHNAPWKAAG/PLPLKAGYQ/QSFPCDSLKYGSWD EKDLTVPQPDTRKASVLRWISQ RGKPLAVDMEEG\HCL/CLPPGN*NVLGCKTPIVH\FNSELGRKAALWREARHVG\SNAAALLFFTPLRLCLGGEKHKSGLHAHPGIVP/SLELNYDIDSFAHVVFVVAVELPLIITLLPYCIPLCCNNEK
19106	49474	C	19215	289	510	
19107	49475	B	19216	534	1686	
19108	49476	B	19217	1	1062	
19109	49477	B	19218	1	1878	
19110	49478	B	19219	1	747	
19111	49479	B	19220	230	786	
19112	49480	B	19221	67	6011	
19113	49481	B	19222	1	3455	

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19114	49482	B	19223	1	4763	
19115	49483	B	19224	65	4534	
19116	49484	B	19225	512	4782	
19117	49485	B	19226	345	2194	
19118	49486	B	19227	267	7391	
19119	49487	A	19228	578	739	
19120	49488	A	19229	419	1410	KQRQARERHLPRIQLSAVVTE TL*RK*RNFAELKIS/RLRKFFA HKMLQKARRKLIYEKVKHCHK EYRQMYRTEIQMATMARKAG NFFVHPKPKLAFVIRISAISGVSP KWKNNKQLCPNLNVFGLGMGD LRAFLADGTGPGGEITGMRD LRGPLSVRAPSAAGVAEIPRHLIV FEDVNVNGKFLQTSRCEISGSKN KVVQTLKKNKRERQRLPTGFG RLADQRAYGEAKNNCGVGL VETLWERHLLRIGVYIATSSLA VPTLSSNYNGLAHDQSCSDTVQ RSTGAPEAWDRGYCVGRGAQG IPIFFLDRPLTSLFDEARGSSAS
19121	49489	A	19230	3	307	AGTMEGVEEKKEVPAVPETL KKKRRNFAELKIKRLKKKFAQ KMLRKARRKLIYEKAKHYHKE YRQMYRTEIRMARMARKAGN FYVPAEPKLAFFVIRIRGI
19122	49490	A	19231	3	160	GRVLL*DKTSRGTIRQQQLLFT NICCSAASA/G*YPGKQGLEWT SSRLQQTCS
19123	49491	A	19232	303	570	GLCIRHVLVPSAAGLLEFAGGP LQTLFAWVSAEAEQIIVVN SKCC/CPDRSSGSFVSEYLA GVGLTLSSASLMLGAVDWSGS HSA
19124	49492	A	19233	1	176	MQYVQQKPKLKFQVHCAYRK TVLQPLLIPRQT/VVWSGPPA NSNRPAAGGADC*KEN

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19125	49493	A	19234	1	1977	MFAVLQAPLVIPROT/VVWSGP PANSNRPA AEGPDC*KEN*RQT GSGVDLQQTPTDLQLRLIVRR KTNEQKGHPHQNPICSPSSKT KVDTTTNMGEKQSRKTENSKN QSASPPPNLKKREKNQIDAIAK NDKGDITTDPTETQTTIREYYKH LYSNKLENLEEMGKFLDTYNLP GLNQEEVESLNRPIITGSEIEVIIN SLPTKKSPPDGFTAIFYQRTK DKNHMIISIDEKAFDKIQQPFM LKTNLKLGIDGTYLKIRAIYDK PTANIILNGQKLEAFPLKAGTR QGCPLSPLLFNIVLEVLAREIRQ EKEIKGIQVGKEEVKLYLFADD MIVYLENPIISAQNLKLSNFSK VSGYKINVQKSQAFLYTSNRQT ESQIMSELPTVIASKRIKYLGIQL TRGVKNLKFENYKPLLNKIKED TNKWKNIPICSWGRINIMKMAI VPKVIYRFNAIPKLPMTTFTEL EKTTLKCIWNQKRAHIVKSILS QKNKAGGIMLPDFKLYYKATV TKTAWYQYQNRHIDQWNRTE PSEIMPHIYSYLIFDKPDKTRNG ERIPYLIRWCWCQWNLAIACR KLKLDPFLLSYTKINSRWIKDL NVRPKTIKLEENLGITIDIGM GKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTEWENISAIYSSDKGLISRIY
19126	49494	A	19235	206	456	
19127	49495	A	19236	2	385	NLCCSAASAGDTQANRVWSGT PTNSSRPEVSSGAMDGEGWGL PVDPLTPGHQDALPWQRCYHP CSSSSVPPRQACASPCSSSAA WTSASTGPWHSKCGSSCGSCC CWGSPSASVGVGAGAIRSRTV
19128	49496	B	19237	1	642	
19129	49497	A	19238	128	584	
19130	49498	A	19239	4054	4578	QSGPSAAGLLEFAGGGLQTLFA WVSAEEAAEQRLVNSRCCCL VPRKFCFLRGVASHVRCQSAPY DVFCCHGITLAKCWCSALGLPSL QSCEPNALFFINYPVCGI/TAPCC KVEGTMGVGPQSPQLSYNVL GSDNNGVLLGSMIAIFLILLIH EHGMFFHLFVSSFISLSSGL

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19131	49499	A	19240	1	948	MVLEKAREEVDPPSLIPPVTQ CGQLPRSQCPQPTLSRMLTLEV GISLGIIVLMISLWPDTVKEYQS REALSFKKYKNKNGLLKFAGDP LQTLFAWVSPAEEAQISALC FLWKLPRGPATRCQPLLSTYTR CLSAPAGSFVYTMRGKPIQAS VMADASPTKIEHPRITSDCCV ASKNFKPVDSLSCSMGVGSAE LDHWATWLQSPFQGSERFCLA GVPGTTGV*KETPAASSVSAQM AAQFCA*N/HRTLTV*APKGIL WVCGLRPWEKRSICAGVHHS SWHSPSWLPLARGSSSTPCTS WVRRCP TLHL
19132	49500	A	19241	171	1345	YCPKEGTLDFNFANMTAVNV ALIRDTKWLTLVEVCREFRGTC SRADADCKFAHPPRVCHVENG RVVACFDLSKSVTAVPFLFMA GLSREPETVPASMVQTFSLGVG GGAGSV*PDENCKYLHPPHLK TQLEINGRNLIQKQTAAMFMA QQMQLMLQNAQMSSLSGFPM PSIPANPPM/SFESLRYHILGMG LVPAELVNPVLPGLKPTSLQL PGSCLGPKLMAFQINWEVLP RQNGNC/SRGENDICRY/AHPTD ASMIEASDNTVTICMGYIKGRR TVGVWGIKAKSSQRLDTKGS HQGNSFVRGTDYLPICTNMSK AKGTAFLKWMQKLVYNGSSG QCSAPFFCCAWEHSEKAGRA SGAKCNRHRTNPVFLMREGA IS
19133	49501	A	19242	61	544	KFNPFVTSRPRARIRKRAFNP SHIPKGRLLSFPLSPKSLRPEG TNRADSHAPIKRMIESSRLYR GHL*GSAKLAKVVPFRTRKKY VIYIER/VQREKA\NGTTVH/VGI HPSKQVITKAKTGTTRKKIP PNRKAQSRQVGKEG/KYKER TUEKMQE
19134	49502	A	19243	652	1042	TPLSSCFLSREKATQLLFPVVA VPMVLSAMGFTAAGIASSSIAA KMMSSAAIANGGGVAGSLVA TLQS/LG*VSWRGLPTVLPTEL RQACPTLSTLCFFPGATGLSGLT KFILGSIGSAIAAVIARFY
19135	49503	A	19244	48	397	

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19136	49504	A	19245	42	296	GCVGVRLPHPATSTASGSASP TLARAMASVSELACIYALILH DDEVTVTEDKINA/APAEKKV EAKKEESEESDDMGFLFD
19137	49505	A	19246	172	519	LGPSFLHDEVTVTEDKIQMPLI KAAGVNVPEFPWG/LCFAKAL GKRSTLGLSLAMLGGPVGPGS QPAGCLQPAAGSCPPSTCCWF QLEGEKEWEAKERKIPREF*LID MGFLFD
19138	49506	A	19247	3	175	
19139	49507	A	19248	2	390	GWDWNCVWEPHHWLCQSL/N SVTQAGVQCLNLSLQPLPLGF KQFSCLSLSSWDYRNSLKQKQ LFSYAILGFALSEAMGLFCLMV AFLISLPCGEAVSTSHSSPASG WPRVFLFLYLPRQPGERGWL
19140	49508	B	19249	139	13320	
19141	49509	A	19250	28	450	TNDFNLQNPFGSCFSPACPAVG SERLPVLGWVFGNRSFPPPPQST LSVLGKRLGRNGAIAAGVFGA LFIGYCIYFDRKRLK*PQLKDAE AVQKFFLEEI*LIGEEILAKGVD HLTNPSAFFG/QPNHFPLQMDSF GPFLRFQA
19142	49510	A	19251	164	420	
19143	49511	A	19252	1	329	STHTTYWEGCRTTSAGLLRKH EPGEEAF/FYHSTSKKPGIAGLI KVNVPQFVRMMKRSIPWALNP YHQAHKATGGPLKNMVLTRQ RLSIQPLTQEEFDFVLSLEEKEP
19144	49512	B	19253	39	368	
19145	49513	A	19254	1014	1290	
19146	49514	A	19255	122	680	LARITRIVRTKVPCSVTMSRPRK RLAGTSGSDKGLSGKRTKTENS GEALAKVEDSNPQKTSATKNC LKNLSHSLWMKSEPEERLEKG VDVKFSIEDLTAQAKQTTCWD GVRNYQAS/RNFLRAMKLGEE AFFYP*QLAKKPGIAGLMKIVK EAYPDHTQF*EKNPHYDPSSKE DNPKWSMKSLILF

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19147	49515	A	19256	2	1005	RISTSTLCPKKKLIAPPGRAGL ASMGLNEEQKEFQKVAADF ^{AA} REMAPNMAEWDQKDRKADGK GGAVTQEVQAQLLVKHGQKL VSRFQLSSFSYVDSVRTTQSKQ EHLQTDKGLSGKRTKTENSGE ALAKVEDSNPQKTSATKNCLK NLSSHWMKSEPE ^{SR} LEKGVD VKFSIEDLK ^{AA} QPQ ^Q TT ^W EWEG VRNY ^Q ARNFLRAMKLGEE ^{AF} FYH ^S SNCKEPGIAGLMKIVK ^{EA} VYPDHTQFEKKQPP ^{PL} *PPS* ^{QR} GTPPKWPHGWMV/QVWFGMM KRFHSP ^{LA} E/LKS/HHQA ^{HA} K ^{AS} GGPLKNMVLFTR/QRLSNQ ^{PL} T VQEEFDV ^{LS} LEEKEPS
19148	49516	A	19257	3	727	VRLQFLTPTLRAARTMAAPPQL RALLVVVNALLRKRRYHAALA VLKGF ^R NGAVYGAKIRGPSRR WVMTFLFREWAASREKLWAIL QATYIHSWNL ^{AR} FVHLTRV FRCPAVPYITRARTYPAHAFPG AGLSFGGILVFG ^R KQ*TFNSQI\ NMYLLSTRPCLP*SR ^{LA} VRRK GLHP*NPRWD ^{PFP} /VCLTAVVW GLVLWLF ^{EY} HRSTLQPSLQSSM TYLYEDSNV ^{WHD} ISDFLVY ^{NK} SRPSN
19149	49517	A	19258	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVSIVSSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIAA ^{AF} REPRLLVVTD ^{PRA} DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS/DPEEIE KEEQAAAEKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFP ^{TD} WSTQPATENW SAAPTAQATEWKM ^Q Q ^Q STILE AE ^{SS} PHQTPNLPA ^P WSKTSQPPE

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19150	49518	A	19259	1	1309	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLMKEEDVL KFLAA/GTHLGGTQFLLSRGHG YFYKGKS/DGLSFIINPKRAREE\
19151	49519	A	19260	965	2495	LLLPARQIVPHKTPSDVSVISSG NTGQVCGTVRA/VCLKFAAAAT GATPIAGRFTPGTFH*PRSKA AFIREPRLLVVT*PPGADPPALS RSASYVNLPHYLRGNT/DS/QL RYVDIAIPCNKGAHSVGLMW WMLARGSFCAAMRGTTISREHPW EVMPDLIFYRYRDPREEKEEQ AA*/E/RQVTKEEFQGEWTAPAP EFTATQPEVADWSEGVQGAPL VPYSAIPTEDWSSQPAMEDWS AAPTATATEWCSRTSLRQNPSPD TELKKEGLYSARSISKTHVSKT ELPNQGTKKCSRTSHRQNPST ELKKEGLYLARSIGKTHISKTEL AFTTRSTFSTNYRSLGSVQAPS YGARPRQAARPAASYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GTPSGVMAGMGIGQNEKETM QS/LNDR/LAS/LGQE*/RSLEDR RTRKLGRAKFRHFGRKKGQ VRDWSHYFYKINEDLEGFRFFR KILVGQCPASVSARFDNAPSL LD*F*EFKY*GQSWPMCPVLL NDIPLGSAKVDDTNYHTDLQL VETEIRGSSRRELLFQ*RRNHEE\
						EVKGLQAQIASGLTVE/VD/AP KSQDLAK/IMADIR/AQYD/ELA RKEPEKEA*TKYWSSADLREST TVGHPHKSA*GWKLAEDDASQ KLRRTVQSLEDRPWTSMRKSE RPALENSP*GEVEAPLRPLQDW SQLQTGIPACHLWSQELGTRHR AQRGQRPQPQGV*GPLLNHQG SSLEAEICHLTRPPSWKIGEDFN L/GDS/LDERNSMQTIQK/ITTPP G*VGLGKVVS*/DQLTPKVLKAL SQQEA/VVPFWGSRRPKISFRVQ KKKKEKESF

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19152	49520	A	19261	387	1125	CCRPCATPYALRSLR*PACPPP RWRPSSMPTSRPPVSPAASPTC GTCMLSPCPPAEHLLHLPAAQP QDPALLQPCHPAPPLRPRALHA AHHVGVWPAHQPLLPPVLCPC GGAGRGGG*RCWWRGPSSSSPG PTLIAGQDPGAAQP*TWQ/PTL TSVSATASPKAPLPLAAAVPGA PAEGCCPLLRLQALPAGQLPPGG RRATSAPPAVPGD/PPAQPTM PGSMSCWALAPRCPGPGRCW AWRS
19153	49521	A	19262	3	1097	RGNSRLRYSHDELQPLRLPEL FGNCRQLLEEVATDPAGFR/ IVQEKVFKGLDLE/RAEML/ SQSTLFGRECRFWKDLSPTHLIT FWGPAFQGALTMKQVNPSPKR LRSFCSGAREHFTNYLTQCH/C YHVGQSFEL/PKTMNNSAENH TANSSMAYPSLVAMIASQRQA KIQRKYKQKKEHLRLSAMKSA VESGQADDERVRGYYLLHLQR WVDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPVKPFHS HFGTWLHSQSTFGAGYSKGGWP TYGR*VSWYEQHRKLWSTYP DQGNMPRAAPEGISEKAAQQQ EDQEEKEEEDDEPNFHRARE WDDWK/DTHP/RGYGNRQNM
19154	49522	A	19263	2	262	
19155	49523	A	19264	3	1062	GRTAENPARAVSSPNFYAHRKT EVLFPCLTQPLARGPKKHLK/R VAAPKH/WMLDKLTRVFAPI/P STG/PHKLRECLSKII/LRNRLK YAL/TGDEVKK/CMQR/IK/ID GQGSELDINLPLLGFMGCPSAF DKTGEENFRLDLIDTQGVRF WYIRI*PPWRKAKLQVWCQK* GKILCGPTKRESPPSLGTH*CPA PHPAYPPPPHPR*NGYPIPD*IE DLAKINLISIQSEHW*TLCMGD LEGA*P*GRNWVLIPTERGH GIFLTVGSR*KDANGQAFGHF GLFQHFVIGKGNKTHGSLPR GKGIRLHHLLEERDKRLA/AKQ SQWGEMLGLVDIVQIFWYRN
19156	49524	A	19265	62	298	

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19157	49525	A	19266	1	555	MAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCMNAKHH KTQPSPEDELYGQ/SP/WMCKG SCRKTKSWNI/HRKSKCEVGLA/ WEACSVSAGTGRGPGCGRWV GAPQGP/CPKCKSSG*PTW/VQR SQNMEEMAVNVNQSWRKERILN VPLCKEDCERWVEDCRTSYTC KSNWHKGWNWTSAPSAVCDP LL
19158	49526	A	19267	216	974	MDMAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCMNAKHH KTQPSPEDELYGQCSA WKK\NACCTAS\TSQELHKDTS RLYNFNW\DHCG*K\WNPTCKR PLYPQDSC\YECLTPTLGPWIR QFNQSWRKERFLN\PLCKEDC ERWVEDCRTSYTCKSNWHKG WNWTS\GINKGRPGAF*STFES YFPTPAALCEGLWSHSFKVSNY SRGSGRCIQMWFDQAQGNPNE EVAKFYAAAMNAGAPSRGIIDS
19159	49527	A	19268	345	2138	QRLTATSSWTTMAKNRRDRNS WGGFSEKTYEWSSEEEPPVKK AGPVQVLIVKDDHSEFDELTA NRILLSEAVRDKEVVAVSAG AFRKGKSFMLDMFLRYMYNQE SVDVWGDYNEPLTGFSWRGG ERETTGIIQWSEIFLINKPDGKK VAVLLMDTQGTDSQSTLRDS ATVFALRHNDPASIQVYNLSQN VQEDDLQ\HLQFT\YEGQDW AMGKGHFLEAIFRSLDYFFVRD WSFPYEFSGADGGAKFLEKR LKVSGNQHEELQNVKRIHSCF TNISCFLLPIHPLK\VATNPNFD GK\LEIDDEFHQKL*KYLIPWA YFRSRA*DI*RRSNGGLKINTC RGLVEYFKAYIKIYQGEELPHP KSMQLQATAEANNLAAVATAK DTYNKKMEEICGGDKPFLAPN DLQTKHLAT*GRNLWKLFRGV KKMGGEFSRRYLQLESEIDE LYTNISSHNDKNTFCSSYPQ PTLFCSHPLITYVIAGVTGFIGL DIIASLCNMIMGLTLITLCTWAY IRYSGEYRELGAIVGRWLQLC GTREVMQMRPWNKLYQCQAT PTDILYPSKPFPLHPKVGNLTEQ IQRRKKMVMMPKF